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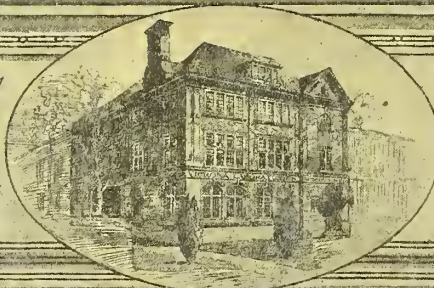
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An antiseptic dressing for the hair, neither sticky nor greasy, recommended for scurf or dandruff. Issued in elegant sprinkler-top bottles, holding about 7½ fl. oz.

M.R.P. 2/6

M.W.P. 20/0 net per dozen

Full list of protected specialities, showing the chemist's percentage of profit on all important specialities, on request.



PARKE, DAVIS & CO.

50-54, Beak Street, LONDON, W. 1.

Laboratories - - Hounslow, Middlesex.

Cables and Marconigrams: "ALLUWANT LONDON."

Telegraphic Address: "POMADE, SMITH, LONDON."

Telephone: CITY 4061, 4062, 4063.

BUTLER & CRISPE

J. H. CRISPE

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English and Foreign Proprietary Medicines
Perfumery, Toilet Goods, Druggists' Sundries

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& DISTRIBUTORS

80-82 Clerkenwell Road, London, E.C.1.

BANDAGES. Open Wove N.H.I.

	3 yards × 1 in.	4 yards × 1½ in.	2 in.	2½ in.	3 in.	4 in.
White	7/-	14/-	18/-	22/6	28/-	37/-
Grey	6/-	11/-	14/6	17/6	22/-	28/- gross net

Each Bandage individually wrapped and labelled except the 1-inch, which are papered only.

BORIC LINT.

Packets	-	1 oz.	2 oz.	4 oz.	8 oz.	1 lb.
Per lb.		2/8	2/6	2/4	2/2	2/-

14 lb., ½d. lb. less: 56 lb., 1d. lb. less.

COTTON WOOL. White Absorbent, Interleaved.

Packets	-	1 oz.	2 oz.	4 oz.	8 oz.	1 lb.
Per lb.		2/1	1/11	1/9	1/7	1/5

14 lb., ½d. lb. less; 56 lb., 1d. lb. less.

LINT.

Packets	-	1 oz.	2 oz.	4 oz.	8 oz.	1 lb.
Per lb.		3/8	3/6	3/4	3/2	3/-

14 lb., ½d. lb. less: 28 lb., 1d. lb. less.

We have also the most complete stock of
Proprietary Goods in the Trade.

THE QUESTION of CIRCULATION

A SUBJECT MUCH DISCUSSED RECENTLY
& OF VITAL INTEREST TO ADVERTISERS

THE main point to be determined is "What is Circulation?" If by this is meant merely the indiscriminate distribution of a number of copies—partially paid for, or not paid for at all—then for publicity purposes it is next to worthless.

But when, as with THE CHEMIST AND DRUGGIST, a genuine prepaid subscription list can be shown, including the names of the most important firms in all branches of the industries represented, then genuine business value is assured.

Another important point to be decided is the commercial standing of the subscriber. If the circulation is confined to a limited territory, or is chiefly among unsuitable readers, then the advertising value is necessarily limited.

But when, as with THE CHEMIST AND DRUGGIST, good money is prepaid annually by the foremost business men in the trades represented at Home and Abroad solely to secure the exclusive services of that journal, then the advertiser knows exactly where he is.

The third point to be ascertained is, whether full use is made of the journal when received. If it is merely looked upon as a routine magazine of no particular importance—to be opened at leisure or not at all—then its advertising value is distinctly questionable.

But when, as with THE CHEMIST AND DRUGGIST, its non-delivery is immediately missed and reported to the Head Office, the obvious inference is that such a journal is a business necessity to the reader, especially seeing that it is filed for reference purposes throughout the year.

The advertiser will realise, therefore, that he gets the best possible value in THE CHEMIST AND DRUGGIST, and if corroborative proof of these statements is required it can readily be obtained.

A personal inspection of the annual subscription lists of THE CHEMIST AND DRUGGIST is—and always has been—open to bona fide inquirers, but if a personal call is inconvenient, a certificate of weekly net sales, drawn up by an accredited firm of Chartered Accountants, will be sent.

That Certificate proves not only net sales, but NET SALES PREPAID, and by no means exhausts the total circulation.

Many further interesting details may be obtained by direct communication with

THE PUBLISHER
THE CHEMIST AND DRUGGIST
42 CANNON STREET, LONDON, E.C.4

Maw's



Page

April 2, 1921

No. 494

Here is a Suggestion

Run your eye over the stock on your shelves and make a rough list of those items which will produce repeat orders with certainty.

Now underline those items which are sold to the chemist only and cannot be purchased from other classes of retailers.

This list will prove very useful as a guide to business policy. The goods you have underlined are the goods it will pay you to push. By doing so you build permanent business, the profits of which must come to yourself. The goods not underlined are a delusion and a snare. By pushing them you are helping to increase the profits of outside competitors, stabilizing their position, increasing their financial resources and placing in their hands a weapon for your own destruction.

Concentrate on those goods you have underlined. Goods that bring repeats and which are supplied exclusively to chemists. All Maw's Lines will be underlined because Maw's quality ensures repeat orders and Maw's Policy restricts sales to the chemist only.

Buy it at Maw's

Telephone
City 7
Private
Branch
Exchange

Telegrams
Eleven
Cent
London

S. Maw, Son & Sons, Ltd.
Aldersgate St., London.
and Barnet.

Cables
Eleven
London

Code
A.B.C.
4th & 5th
Edition





*Make a
clean sweep*

of your
INSURANCE
TROUBLES

and enjoy the perfected Bonus
System and wide protection of

POOL COMPREHENSIVE
SHOPKEEPERS **POLICY**

The Licenses & General Insurance Co. Ltd.

Victoria Embankment

Next Temple Stn. W.C.2


FUNDS EXCEED £500,000. FOUNDED 1890

ONE POLICY

COVERS

Fire, Burglary, Workmen's Com-
pensation, Plate Glass, Public Li-
ability, Third Party Drivers, Loss
of Profits, Loss of Rent, Riot and
Civil Commotion, Bursting Water-
pipes, Storm, Flood & Tempest.
ANNUAL BONUSES





SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised
and stocked by all Wholesale Houses.

Trial Size 8d., per post 10d. 1/4 size, per post
1/7. 2/6 size, per post 2/9. 3/9 size, per post 4/8.
6d. size 6/- doz.; 1/4 size 12/- doz.; 2/6 size 24/- doz.;
3/9 size, 36/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

ART OF DISPENSING. (9th Edit.) 8/-, by post 8/9.

VETERINARY COUNTER PRACTICE.

7/6, by post 8/3.

CHEMIST'S DICTIONARY OF MEDICAL TERMS.

3/6, by post 3/10.

The CHEMIST & DRUGGIST, 42 Cannon Street, E.C.4

THE FIFTH ANNUAL SWISS TRADE EXHIBITION

will be held at

BASLE,

From APRIL 16 to APRIL 26, 1921

For information apply to—

THE COMMERCIAL DIVISION OF THE SWISS LEGATION,
32 Queen Anne Street, W.1.

or to THE SWISS BANK CORPORATION,
43 Lothbury, E.C.2, and at Basle.

Subject to sufficient applications being received, a special party
will be arranged to visit the Exhibition, leaving London on
April 19. For information apply to THE SWISS FEDERAL
RAILWAYS, 11b Regent Street, S.W.1.

GARFIELD TEA

PROMPT SHIPMENT

ALL SIZES

Phone or Write :

GARFIELD TEA CO.

44 Foxbourne Road,

BALHAM, LONDON, S.W. 17.

J. FLEMONS & SONS

Wholesale Herb Merchants,

DUNSTABLE & SOHAM.

*Special lines : English Herbs, Roots and
Flowers, fresh and dried.*

LEAVES & HERBS.

Digitalis, Belladonna, Broom Tops, Dandelion Tops, Coltsfoot,
Mugwort, Ragwort, Wild Carrot, Meadowsweet, etc

ROOTS.

Belladonna, Burdock, Bryony White and Black, Comfrey,
Dandelion, Male Fern, Doggrass, etc.

Full List on Application.


MILTON

Change of Price

On and after April 4th the retail price of **Milton** will be

Small Bottle 1/6—Large Bottle 2/6

The announcement of this change will appear in the National Press and in all leading Provincial papers on April 4th.

Trade Terms

Milton has always been one of the best lines for the trade in its margin of selling profit. Continuing this policy, our new terms, taking effect as from April 4th, will show you a profit on the Small Bottle of 25% on your selling price, and on the Large Bottle of 27.5%, or if you take your cash discounts the Small Bottle will net you 26.87% profit on your selling price, and the Large Bottle 29.31% profit. Or if you avail yourself of our display allowance, every bottle of **Milton** will represent an average of

Over 34% Profit per bottle to you

YOUR PRESENT STOCKS OF MILTON

If you hold stocks of **Milton** which have been bought direct from us, you will have received by post a circular explaining our method of dealing with the stocks you now have.

If you buy through a wholesaler, he will inform you of this scheme.

If you do not stock **Milton**, buy now and make it one of your leading lines.

MILTON ADVERTISING

The trade has appreciated our policy of bold advertising for the past three years. This year we shall advertise **stronger than ever, and continuously**, but with this difference: whilst including all the best-pulling national publications, such as the *Daily Mail*, *Daily Dispatch*, *Glasgow Evening Times*, etc. (there are over 40 of them), our campaign will now include a much wider scope, and our announcements will appear in all the important Provincial papers throughout the kingdom. **The demand for Milton will be more than trebled this year.** Help along the good work! It will pay you well!

MILTON MANUFACTURING COMPANY Ltd.

125 BUNHILL ROW, LONDON, E.C.1.



Display Matter We have a line of entirely new and very attractive Display Material—counter cards, window cards, price cards, lantern slides, hangers, etc. A circular illustrating these various aids to window-dressing will be sent post free on application.



STRAW HAT CLEANER

A good Straw Hat Cleaner will be in great demand during April and May.

REGNAS AS-NU is very good, is well packed, and shows

PROFIT **100%** PROFIT

18/- (COMPLETE GROSS) Retail 3d. packet
per 1/8 doz.

Order of 1 gross (13 to doz.) for CASH WITH ORDER

Sangers 258 EUSTON ROAD, N.W. 1
And OLD INFIRMARY BUILDINGS, NEWCASTLE

AYRTON'S WEEKLY



BUSINESS ALMOST NORMAL

HAVING somewhat settled down in our temporary premises at 58 Hanover Street, we are now in a position to execute promptly all orders for—

DRUGS, PHARMACEUTICALS,
CHEMICALS, PILLS, CAPSULES,
TABLETS, DRUGGISTS' SUNDRIES,
SURGICAL APPLIANCES, COMBS,
BRUSHES, PUFFS, MEDICAL GLASS
BOTTLES, CONFECTIONERY,
TOILET ROLLS, CARDBOARD
BOXES, and many other lines in daily demand.

■ ■

AYRTON, SAUNDERS & Co. L^{TD}
Manufacturing Chemists 58 Hanover Street, LIVERPOOL

NOTE THE ADDRESS—TEL.: CENTRAL 10-61
TELEG.: "SIGRANDIS-PARIS"**HOUSSET & CO.**16 RUE DE GRAMMONT, PARIS (OPÉRA, 2^E).**JARS & POTS.** Plain and tastefully designed for—*PERFUMERS, CHEMISTS AND KINDRED TRADES*
*IN PORCELAIN—OPAL—PRESSED GLASS (Mat & Plain)***HIGH-CLASS PERFUMERY & PREPARATION BOTTLES**
*(Cut, Moulded, Stoppered and Non-stoppered).*Bottles of every description for
CHEMISTS, DRUGGISTS AND PERFUMERS, &c.Finest Qualities ∴ Competitive Prices ∴ Quick DeliveryCUSTOMERS' OWN DESIGNS
IN BOTTLES AND JARS.**BUY—****THREE STAR****BATTERIES**and have **THE BEST.**Ask your Factor
for "Three Star,"
or write direct to
the ManufacturersMade entirely in
England with
British Capital and
British Labour**SUNLIGHT MANUFACTURING CO., LTD.**Telephone: Tottenham 2208.
Telegrams: "Sumabatry, Tottlane, London."

PAXTON ROAD, TOTTENHAM, N.17.



EMULSION ANTISEPTIC THROAT PASTILLES

(KERFOOT)



THE EFFICACY of these Pastilles is proved by the growing demand for them, which after many years of public trial is now greater than ever before.

THE FORMULA contains no narcotics, but consists of Menthol, Oil of Eucalyptus, Terebene, Norwegian Pine Oil, Licorice and Gum Arabic.

THE COATING is one which was invented by us many years ago. It is always pleasant to taste and smell.

THE FINISH is hard and glossy and does not collect dust when exposed for sale.

THE SELLING AIDS include large panel showcards, circular counter cards, cartons bearing Chemist's own name, etc.

THE PRICE is 3/3 per lb in bulk. 2 oz. and 4 oz. gold lacquered tins are 8/- and 15/- dozen respectively; 9d. and 1/4 'Marble' Tins are 5/6 and 11/- per dozen respectively.



THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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BEFORE BUYING YOUR SUMMER STOCK OF

COCOANUT OIL SHAMPOOS

CONSIDER THESE PRICES AND SEND FOR SAMPLES

PRICES :

LIQUID

4-oz. bottles, RETAIL **2/-** each

15/- doz.; 3 doz. at **14/6**; 6 doz.
at **13/6**

POWDERS

RETAIL at **3d.** each.

18/- gross; 3 gross and over, **17/6**

TERMS:

$2\frac{1}{2}$ % discount Cash with Order, or Net 1 Month. Carriage Paid £3 orders Great Britain. Name and address free on 3 dozen Liquid, and 2 gross Powders.

**SPECIAL
TRIAL
OFFER**

For **25/-** cash with order—Carriage Paid
—1 doz. LIQUID and $\frac{1}{2}$ gross POWDERS.

Retail Sales of this parcel = **42/-**

EVANS, GADD & CO. LTD.

EXETER & BRISTOL.



Get YOUR Share of
the Large Sales now being made of

The Empire HENNA SHAMPOOS

These are well packed in smart envelopes and boxes, delightfully perfumed, and repeat sales are sure. Made from a Potash Soap base, so the hair is left soft and wavy.

Send for a Free Sample.

PRICES :

Retail at 3d. each.

Loose in display outers, 17/- per gross.

In boxes of seven, 14/- per doz.

3 gross printed with customer's name.

SHOWCARD WITH ALL ORDERS.

EMPIRE PERFUMERY CO.,
(Proprietors: Cuxson, Gerrard & Co., Limited)

Oldbury, near Birmingham.

S. African Agents—

ALL BRITISH AGENCY COMPANY,
10 Main Street,
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FACSIMILE OF SHOWCARD.

K. B. MAVLANKAR

Telegraphic Address:
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Codes:
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Sole European Agent to
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ESSENTIAL OILS
Synthetic Chemicals
Natural Flower Oils
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Sole Agent in U.K. to
Messrs. POLAK &
SCHWARZ, Ltd.,
Zaandam, Holland,

AND
DITTA MARIO DE
PASQUALE, Messina.

26-27 Hatton Garden - - LONDON, E.C. 1.

And at 29 CORPORATION STREET, MANCHESTER.

2

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American),

VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France
Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C.3.

Wholesale Houses only supplied.

CHLOROPHYLL C.

Fast to Light and Acid—Absolutely Pure. Guaranteed to be of uniform concentration and shade, and to give an entirely clear solution.

The Sandoz Chemical Co., Ltd. - - Bradford.

(1)

CHEMICAL WORKS ROERMOND



AROMATIC CHEMICALS
SYNTHETIC PERFUMES
FLOWER OILS –
ESSENTIAL OILS
ARTIF. MUSKS –

“RACO” FLOWER OILS
COMPOUNDS
CONCENTRATED ESSENCES
for Perfuming Toilet and Cosmetic Preparations.

To be used by every Chemist.

Simplest and easiest!

The use of our essences of unequalled delicacy gives
QUALITY AND DISTINCTION TO YOUR PRODUCTS.

Please send for samples to prove our essences and to convince you of
their great superiority.

Samples and expert advice for practical working will be furnished
promptly on request.

H. RAAB & CO.

ROERMOND

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Represented by—

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5 WATER LANE, GREAT TOWER STREET,
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N.V. CHEMISCHE FABRIEK "NAARDEN"

BUSSUM, HOLLAND.

ESSENTIAL OILS, &c.

for the Soap, Confectionery, Mineral
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SPECIALISTS

in the manufacture of SYNTHETIC
Products for the Perfumery Trade.

Flor. Oils. Pharmaceutical Oils. Chemicals.

LARGE STOCKS IN LONDON.

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WE MAKE IN ENGLAND

GLASS BOTTLES

ESTABLISHED 1880.



WE import from our special
works in France and Belgium
all kinds suitable for Chemists,
Perfumers, Essence Manufac-
turers and all kindred trades.
We are in a position to give
prompt deliveries of reasonable
quantities in a reasonable time.
Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

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28 MARTIN LANE, CANNON STREET,
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Telegrams—"Sennock, Cannon, London." 2
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MUSK GENUINE INDIAN

SPOT DELIVERY.
Price on Application.

RAOUL FRÈRES

Drug and Chemical Manufacturers,

6 HOLBORN VIADUCT, LONDON, E.C. 1.

Shipkoff's Pure Otto of Rose

*Nature ordained that Otto of Rose should have certain
chemical and physical contents. Fakers design rose oils having
the same contents, but they are not Otto of Rose.*

Shipkoff's Otto of Rose is Nature's Otto.

Before placing your contract be sure to get Shipkoff's sample
and price, and try it. Original Sample Coppers in 1, 2 & 4-oz. sizes.

ONCE TRIED—ALWAYS USED.

Highest Awards at all Universal Expositions, including
Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria.

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and
Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.

ESTABLISHED 1895

MOHAWK BRAND
OIL PEPPERMINT
 (NATURAL AND REDISTILLED)
AMERICAN

PACKED AS FOLLOWS:
 3 20-lb. Tins to a Case | 10 5-lb. Tins to a Case
 5 10-lb. Tins to a Case | 50 1-lb. Bottles to a Case

All Packages Inclusive.
*Preferred and specified by all discriminating
 Manufacturers as a product of unexcelled
 purity and delicacy of flavour.*

Exclusive Agents for the United Kingdom:
Messrs. E. GUILLEVIC & COMPANY,
 19 ST. DUNSTON'S HILL - - LONDON.

MOHAWK BRAND

MAGNUS, MABEE & REYNARD, INC. NEW YORK U.S.A.




NEROLI BICARADE
 TERPENELESS ESSENTIAL OILS
 "Tank" Brand.
 PURE SICILIAN ESSENTIAL OILS
The Best on the Market
 EXPORTATION THROUGHOUT THE WORLD
GIUSEPPE MACAJONE, MILANO
 Via Canova 25 (Italy)

"ARETHUSA"
 Brand
ESSENTIAL OILS

LEMON, ORANGE (Sweet & Bitter)
BERGAMOT :: MANDARIN

Guaranteed absolutely pure

**The Brand that covers only Finest
 Quality Oils.**

*Manufactured by the old-established house of
 FRATELLI JUNG (Est. 1867) Palermo,
 Messina, Catania.*

ASK YOUR USUAL SUPPLIERS
 to deliver you "Arethusa" Essential Oils,
 or apply to the London Agents:

Gerald McDonald & Co.,
9 BOTOLPH LANE - E.C.3.

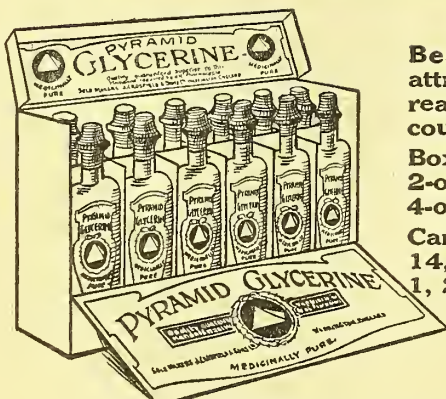
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 Telephone: Avenue 206 (3 lines, 7 extensions).

PYRAMID GLYCERINE

Quality guaranteed
standard required



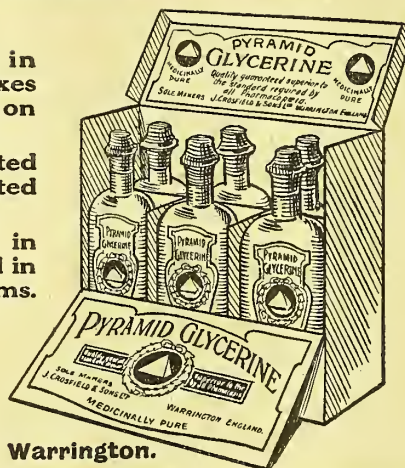
superior to the
by all Pharmacopœia



Beautifully packed in
attractive Display Boxes
ready for showing on
counter or in window.

Boxes contain 12 reputed
2-oz. bottles or 6 reputed
4-oz. bottles.

Can also be supplied in
14, 28 & 56-lb. tins, and in
1, 2½, 5 & 10 cwt. drums.



Write for particulars and Price List to
The Agents :- THE ERASMIC Co., Ltd., Warrington.

Parfumerie

Bourjois

Paris

Poudre de Riz de Java

No. 45
10/- per doz.

P.A.T.A.
1/3 per box.



No. 45.

No. 495.
7/- per doz.

P.A.T.A.
10½d. per box.

A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C. 4.

Also manufacturers of the celebrated "ASHES OF ROSES," No. 2, 15/- per doz.; P.A.T.A. 1/9 per box.

SELFRIDGE'S

LILY of the VALLEY PERFUME

Owing to the enquiries for this perfume that have reached us from all parts of the British Isles, we have decided to offer it to the trade at

33 $\frac{1}{3}$ % off Retail Prices

and shall be pleased to supply Chemists and Perfumers on these terms.

LILY OF THE VALLEY PERFUME	...	...	...	Retails at	2/3	($\frac{1}{2}$ -oz.)
" " " "	"	"	"	"	4/-	(1-oz.)
" " " "	"	"	"	"	7/3	(2-oz.)
" " " "	"	"	"	"	13/6	(4-oz.)
" " " "	"	"	"	"	25/6	(8-oz.)

Other specialities which we manufacture and which have a tremendous Sale are

Lily of the Valley Poudre de Riz	...	...	...	Retail Price	2/-
Crystal Cologne (Solidified)	...	...	...	" "	3/-
Mystique Vanishing Cream	...	...	...	" "	2/-
Mystique Peroxide Cream	...	...	...	" "	1/3
Mystique Poudre de Riz	...	...	...	" "	3/-
Compact Powder (with puff)	...	...	...	" "	1/2
Compact Rouge (with puff)	...	...	...	" "	1/6

Our terms for all these preparations are 33 $\frac{1}{3}$ % off Retail Net Price.

All communications should be addressed to—
Selfridge's Wholesale Department,
Irongate Wharf Road, W.2.

RUVOIRE ET CIE

MANCHESTER & ANTIBES.

High-class Concentrated Perfumes made with some of the finest flower oils from the South of France, in high-class rod-stoppered hexagon bottles with gold seals.

ODOURS—

PARMA VIOLET. SWEET PEA.
WHITE ROSE. WHITE LILAC.
WALLFLOWER. LILY OF THE VALLEY.
FREE FROM SPIRIT.

Above combination mounted on artistic card, displaying One Dozen Bottles.

A very attractive and good Selling Line.

APPLY— **A. M. EVANS,**
154 CHURCH LANE, HARPURHEY
MANCHESTER.

Récamier

CRÈME RÉCAMIER

RÉCAMIER POUDRE

SAVON RÉCAMIER

CRÈME DU HAREM

AN extensive general Advertising Campaign has commenced which will assure the sales of the above well-known Toilet Requisites and bring purchasers to you. Moreover, we are prepared to help you in your own district. Write at once, and we will send you full particulars of our special offer, how we will help you locally, and trade terms.

RÉCAMIER PRODUCTS CO.

4 St. James's Street, London, S.W.1.

Where Quality Reigns Supreme

OUR WEEKLY MESSAGE.

Many Chemists tell us they only sell Perfumery at Christmas.

Yet in spite of our being a very new firm we have single-shop Chemists who buy steadily from us to the tune of £250 a year and over.

There must be a wrong method and a right one for handling this class of business.

If you will write to us we will give you what, in our opinion, is a good and inexpensive plan of campaign.

DE LUZY 5/- PERFUMES

The price the ordinary public want to pay to-day, and a line that will fully satisfy.

Assorted flower odours in reputed 1-oz. stoppered bottles. Each in cream and brown carton 40/- dozen.

Amber, Chypre, Origan
5/6 Retail 44/- dozen

BONUS TERMS BETTER



Poiret's Rosine PERFUMES

The speedy way to extra profits. If your clientele can pay the price we will prove how easily you can sell the line.

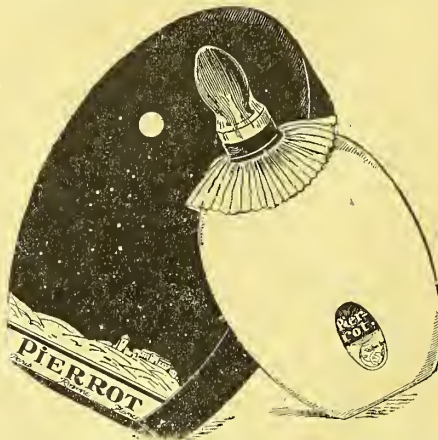
Illustrated.

PIERROT,

a fresh distinguished odour in a unique packing.

27/6 Retail.

Write for set of Coloured Illustrations.



BEAVERPUFS & NUPUFS

The dainty fur and leather puffs, complete with powder, that sell so well and repeat so frequently. BEAVERPUF, brown fur; NUPUF, white fur.

4/6 Retail; in 1/2-dozen display boxes, 36/- dozen.

W. H. CALNAN & CO LTD.
30-32 LUDGATE HILL, LONDON. E.C.4.



Horton Liquid Toilet Soaps

We are the largest makers of Liquid Soap in the United Kingdom, carrying regular stocks of 8000 gallons in our tanks.

Our "DE LUXE" quality is specially suitable for Chemists and for manufacturers of Toilet preparations generally. Bottled in an attractive manner, it makes the finest

Cocoanut Oil Shampoo (Emulsified)

on the market.

Write to us for full particulars of prices per gallon of 160 ounces, so that you may realise how profitable an investment a 40-gallon barrel can be to you.

HORTON MANUFACTURING CO. Ltd.
RICKMANSWORTH, Herts.

Telegrams : "Liquisopa Rickmansworth."

Telephone : Rickmansworth 43.



EVAN WILLIAM'S ORIGINAL Henna Shampoo

Your Customers
will insist on the
Evan Williams'
HENNA

SHAMPOO

having been taught
by experience. Are
you ready to meet
their demands?

Stock moves freely
at a handsome profit.

Full particulars are
included in *The SHAMPOO
SALESMAN*, which is
sent free on request.

The EVAN WILLIAMS CO., LTD.,
18 & 18a, Oyle St., Foley St., London, W.1.



More Men buy Anzora

every day. Sales continue
to mount rapidly. Anzora is
not tried and dropped.
Every new user becomes a
regular user. If you send us
a small order to-day you will
soon send a large one.

We advertise consistently and
help you in every way.



Anzora Cream for greasy scalps.
Anzora Viola for dry scalps.

Obtainable from all Wholesalers.

Trade Terms :

12/- doz....retailed at 18/-
20/- " " 30/-

ANZORA

Masters the Hair

Anzora Perfumery Co., Ltd., Willesden Lane, N.W. 6



Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone."
A big vigorous, impressive advertising campaign, covering
the whole of the British Isles, is now being pursued. A
vastly increased volume of business is inevitable. Generous
profit to the trade has been arranged.

TATCHO
THE HAIR GROWER
Price 2/9

Wholesale :
26/-
PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
Price 4/6

Wholesale :
42/-
PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO.
5 Great Queen St., Kingsway, LONDON, W.C.2.



MORNY

SHAVING LUXURIES

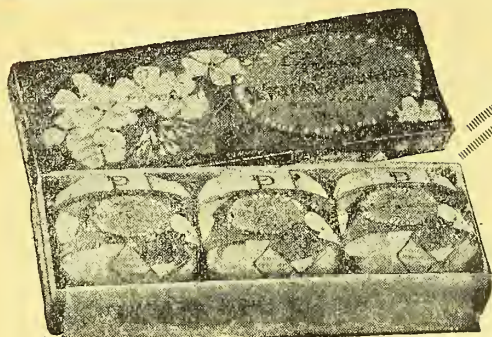
Morny Shaving Soap has the distinction of being known as
"The Officer's Shaving Soap."

Lightly perfumed "Chaminade," "June Roses," "Mysterieuse,"
 "Violette," etc., in three forms: Bowls, Cakes and Sticks.
 Your customers' preference for it over all other soaps will be
 accentuated with each day's use.

Write for List and Terms to:—

MORNY
 FRÈRES Ltd.,
 6 New Burlington St.,
 W. 1.





Enquiries as to
PRICE'S
White Geranium
TOILET SOAP

reveal the astonishing interest on the part of Chemists in this new high-class and unusually Charming Soap. Wouldn't you like to know all about White Geranium?

PRICE 30/- per doz.
Less Discount

RETAILS at 3/6 per box.

PRICE'S
Battersea
S.W. 11



The Toilet Soap of
Guaranteed Purity

Price's
"BUTTERMILK"
Toilet Soap

OUR SUCCESSFUL
FREE SAMPLE CAMPAIGN

supplemented by a charming poster and showcard, is helping you.

How are your supplies of PRICE'S "BUTTERMILK" SOAP?

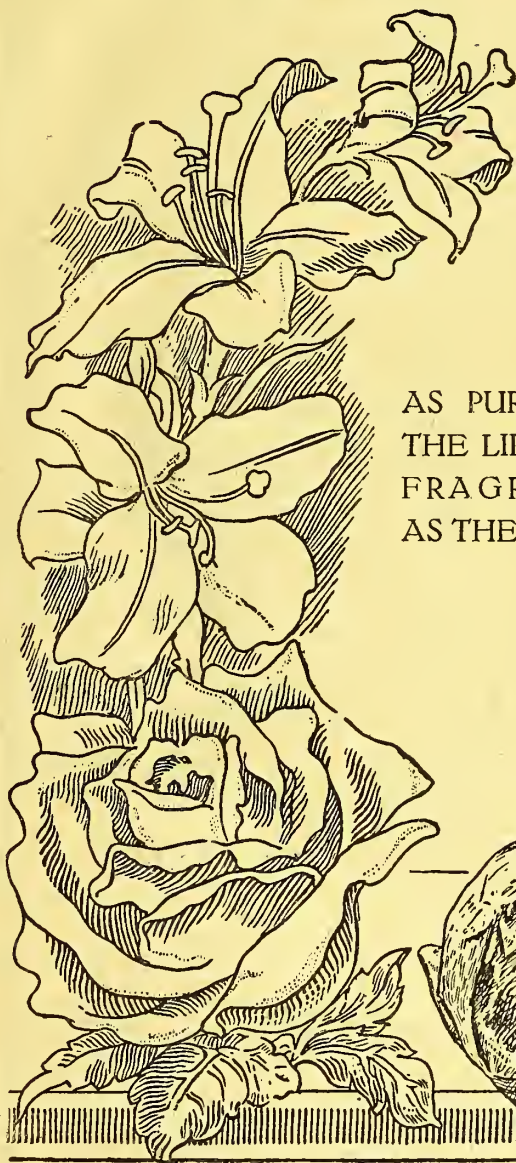
A card from you will bring quotation, sample, and copy of charming "Barribal" Showcard.

PRICE'S BATTERSEA S.W. 11

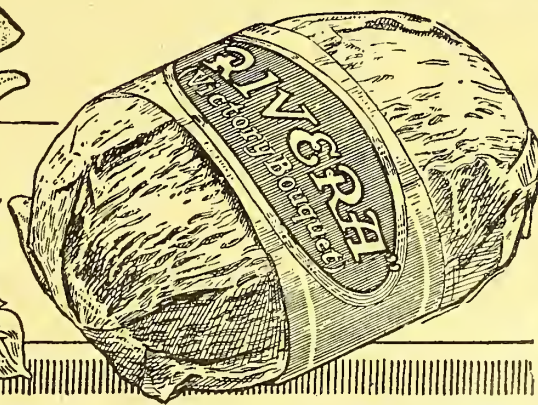


“RIVERA”

VICTORY BOUQUET TOILET SOAP.



AS PURE AS
THE LILY, AS
FRAGRANT
AS THE ROSE



Send a postcard for our Special Terms allowed for Window Displays,
for which the above reproduced attractive Showcard is given.

EDWARD COOK & CO., LTD., Soap Specialists,
BOW, LONDON, E.3.

Don't Buy Manicure Goods

from firms who make a side line of them, but go to the firm with whom Manicure Requisites are a Speciality.

OUR LATEST ILLUSTRATED CATALOGUE SENT ON APPLICATION.

Macmillan
REG. TRADE MARK.

MACMILLAN & ARTHUR,
1, 2, 3 & 4 GILTSPUR STREET, LONDON, E.C. 1.

HAIR BRUSHES

NAIL BRUSHES.
CLOTHES BRUSHES.
SHAVING BRUSHES.

*Everything in the way
of Brushes.*



Telephone:
MUSEUM 2111.

Telegrams:
"AWHILE, WESDO, LONDON."

TITTERTON & HOWARD LTD., 8-10 GT. TITCHFIELD STREET,
LONDON, W. 1.

PAPER HANDKERCHIEFS

The "TOINOCO" Silky Fibre "A" variety are now put up in Sample Packets of Two Dozen, to Retail at 1s.

This in addition to the well-known packet of 50 for 2s., also Papier Crepon, 50 for 1s. 9d.

STOCKED BY ALL LEADING SUNDRY & WHOLESALE HOUSES.



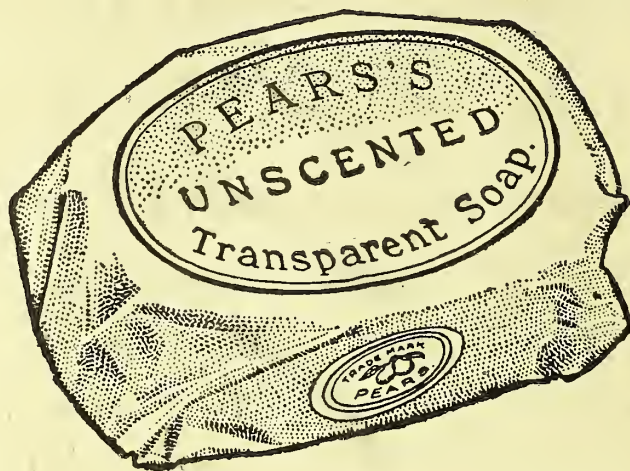
*It's the Bottle with
the Crown Stopper.*

Made by the
Crown Perfumery Company
Limited, Sydney Road,
Homerton, London, E. 9.

THE Crown Stopper is the hallmark of the highest quality—that is why Crown Lavender Smelling Salts are so popular with a discriminating public—they have been famous for nearly half a century.

Nothing is more refreshing than good Lavender Smelling Salts—nothing is better than Crown Lavender Smelling Salts—hence they are much in demand.

Pharmacists who stock Crown Lavender Smelling Salts please their patrons, ensure a quick turnover, and obtain a good profit.



*That Pears' Advertising is
good and effective is the
opinion of experts. Show
Pears' goods and you will
reap the benefit.*

Pears

A. & F. Pears, Ltd., 71-75, New Oxford Street, London, W.C. 1.

20/-

To Cash Coupon Below

20/-

All You Have To Do Is :**When a customer asks for**

A Shampoo or Hairwash	recommend	QUIN-QUENNA
A Hair-grower	- - - "	QUINOLOX
A Hair Fixative	- - - "	QUIN-QUENNA HAIR CREAM
A Brillantine	- - - "	BI-PASTRATE OF QUINOLOX
A Day Cream	- - - "	SAPINOL ROSE

*Made by the Quin-Quenna People.***Parcel No. 5.**

3 doz.	Cartoned	QUINOLOX 2/6	... £3	0	0
$\frac{1}{2}$	"	" 4/-	...	16	0
$\frac{1}{2}$	"	BI-PASTRATE OF QUINOLOX 1/9		7	0
1	"	QUIN-QUENNA HAIR CREAM 2/9	1	2	0
3	"	SAPINOL ROSE 1/9	...	2	2
				<u>£7</u>	<u>7</u> 0

*Shows you 50% profit on outlay, plus your commission.**Don't run out of Quin-Quenna.**If your stock is low add $\frac{1}{2}$ -gross
with 1 doz. bonus to your order.***COUPON** **LEIGHTON LABORATORIES,****35 Gray's Inn Road,
London, W.C.1.**

Phone : Museum 555.

Telegrams : "Sapinolab London."

CASH VALUE

Kindly send me your parcel Number Five, Carriage Paid and Packing Free, and I will display and recommend your goods, realizing that they are British made, pure, and of the high standard of perfection your house has always aspired to, and at the same time knowing I am rendering my customers really good service by selling your goods to them.

On receipt of this coupon send cheque (made payable to me) being my commission in advance for pushing your goods.

Name

Address

20/-

LINES THAT SHOW GOOD PROFITS.

Taylor's Cimolite Preparations.

50 YEARS' REPUTATION.



Of exquisite daintiness and purity. For many years extensively used by the highest families, both as Toilet and Nursery requisites, and supplied regularly to a wide clientèle of Royal and Noble families.

CIMOLITE TOILET POWDER.

Boxes, 1/1½ (per doz. 9/6)
Tins, 3/-, 5/6, 11/- (per doz. 27/-, 49/3, 96/-)
Bottles, 3/3, 6/6 (per doz. 30/-, 55/6)

CIMOLITE TOILET CREAM.

Collapsible tubes, 1/3 (per doz. 11/6)

CIMOLITE SOAP.

Per tablet, 8d.; per box, 2/- (per doz. 3 tab. boxes, 20/-)

CIMOLITE FACE POWDER.

Boxes, 1/1½ (per doz. 9/6)
Tins, 3/- (per doz. 27/-)

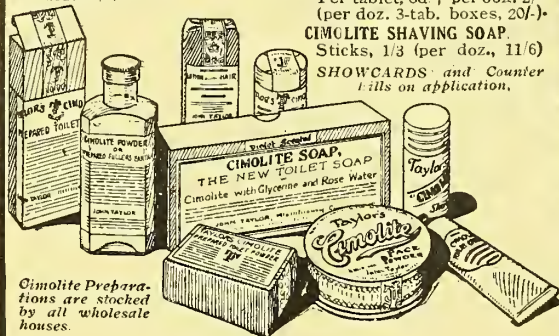
CIMOLITE SOAP (Violet-Scented)

Per tablet, 8d.; per box, 2/- (per doz. 3 tab. boxes, 20/-)

CIMOLITE SHAVING SOAP.

Sticks, 1/3 (per doz., 11/6)

SHOWCARDS and Counter
Labels on application.



Cimolite Prepara-
tions are stocked
by all wholesale
houses.

PREPARED ONLY BY

JOHN TAYLOR, Manufacturing Chemist,
30 BAKER STREET, PORTMAN SQ., LONDON, W.1.

Fanchette (Regd.)

LIQUID FACE POWDER

A Charming Toilet Preparation.

Selling Price, **2/6** per bottle.

Retailers, Less 33½% Wholesalers, Less 33½% & 20%

Sole London Agents: V. P. HOLLIDAY & Co.

5 The Arcade, Wightman Road, Haringay, N.4.

MANUFACTURERS:

HARRIES, Fanchette Toilet Preparations,

46 PARK CRESCENT MEWS WEST, W.1.

THIS IS WORTH

20/-

To you in actual cash, see other
side.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP -	10/-	1/-
A complexion soap.		
PROLACTUM -	10/-	1/-
For the lips.		
PARSIDIUM JELLY -	10/-	1/-
For wrinkles.		
ALLACITE of ORANGE BLOSSOM	22/6	2/6
A dressing cream.		
BORANIUM -	22/6	2/6
A hair tonic.		
CLEMINITE -	22/6	2/6
For a face lotion.		
COLLIANDUM -	22/6	2/6
For a face tint.		
PERGOL -	22/6	2/6
A deodorant.		
STALLAX -	22/6	2/6
For a shampoo.		
JETTALINE -	31/6	3/6
For clearing the skin.		
PHEMINOL -	36/-	4/-
A depilatory.		
MENNALINE -	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX	31/6	3/6
A face cream.		
STYMOL -	36/-	4/-
For oily complexions and blackheads.		
BARSYDE -	22/6	2/6
Dandruff eradicator.		
TAMMALITE -	22/6	2/6
For grey or faded hair.		
LIQUID PERGOL -	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM -	22/6	2/6
For whitening the hands.		
HARAPOSA -	22/6	2/6
Nut oil shampoo.		

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:

ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:

LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:

KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta)
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:

SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:

DEARBORN, Ltd., Calla' Salta 264, Buenos Aires.

MOORLAND PHARMACY SERVICE

W.B. Cartwright, Ltd.

RAWDON ❖ NEAR ❖ LEEDS.

The Leading House of Ideas for Pharmacy.

Offer an unique service to both manufacturers and retailers who require advice and assistance upon matters relative to advertising and selling.

We invite correspondence with manufacturers of really High-class Preparations, Toilet Specialities, Perfumery or Sundries, provided they are lines that will not clash with our present interests.

We are in an unique position to give you the best provided your lines are such as we can have confidence in.

Advertising must be well done to be effective—there is nothing upon which you can waste more money than ineffective publicity. If you have *the* line we can create *the* market for you.

ADDRESS
PUBLICITY DEPT.

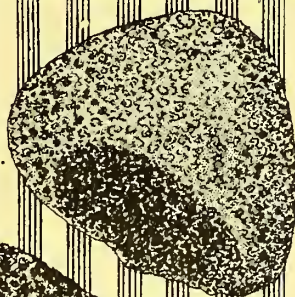


MOORLAND
PHARMACY SERVICE

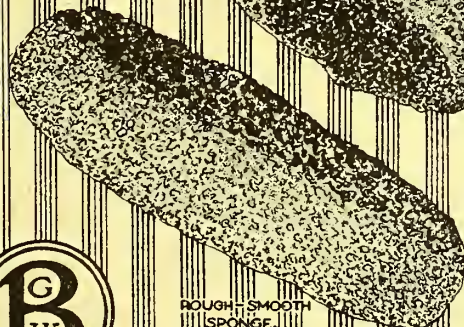
Choose the Best Quality!



CUP
SPONGE.



ROUGH-SMOOTH
SPONGE.



PATENT

BELDAM PURE RUBBER "TURKEY" SPONGES

Made from the best red rubber, of a fine soft texture, which resists wear much better than the coarser varieties. The ordinary sponge is made in five sizes; the patent Rough-Smooth in three sizes; and the Turkey Cup in one size only.

Unaffected by boiling water, or strong disinfectants, they are the perfect sponge.

Write for full price list.

Sole Selling Agents

• MOORLAND •
PHARMACY SERVICE
W.B. CARTWRIGHT LTD.
• RAWDON NR LEEDS •



The Growing Demand

for Nildé products is due to two causes: (1) the super-quality of the goods themselves, and the attractive manner in which they are presented to the public; and (2) the steady outflow of vigorous publicity which keeps the name of Nildé ever fresh in the public mind.

POUDRE NILDÉ

in the sifter box

Shows you 33 $\frac{1}{3}$ % on selling price.

If you are *au fait* with your customers' needs you will not hesitate to stock it regularly. Not only is it a line which "turns over" rapidly and at a good profit, but it gives your customer 100% satisfaction—*always*, and therefore builds up goodwill, and makes for the expansion which is based on recommendation.

MINIMUM SELLING PRICES:

ROUGE INVISIBLE NILDÉ

in the sifter box.

Small size	- - - -	1/6
In leather case	- - - -	5/6

Tints: Brune & Blonde.

POUDRE NILDÉ

in the sifter box.

Handbag size	- - -	1/-
Medium size	- - -	2/-
Large size	- - -	3/6
Leather or fancy silk vanity cases, with mirror, small size	- - -	5/-
Medium size	- - -	7/6
Large size	- - -	10/-

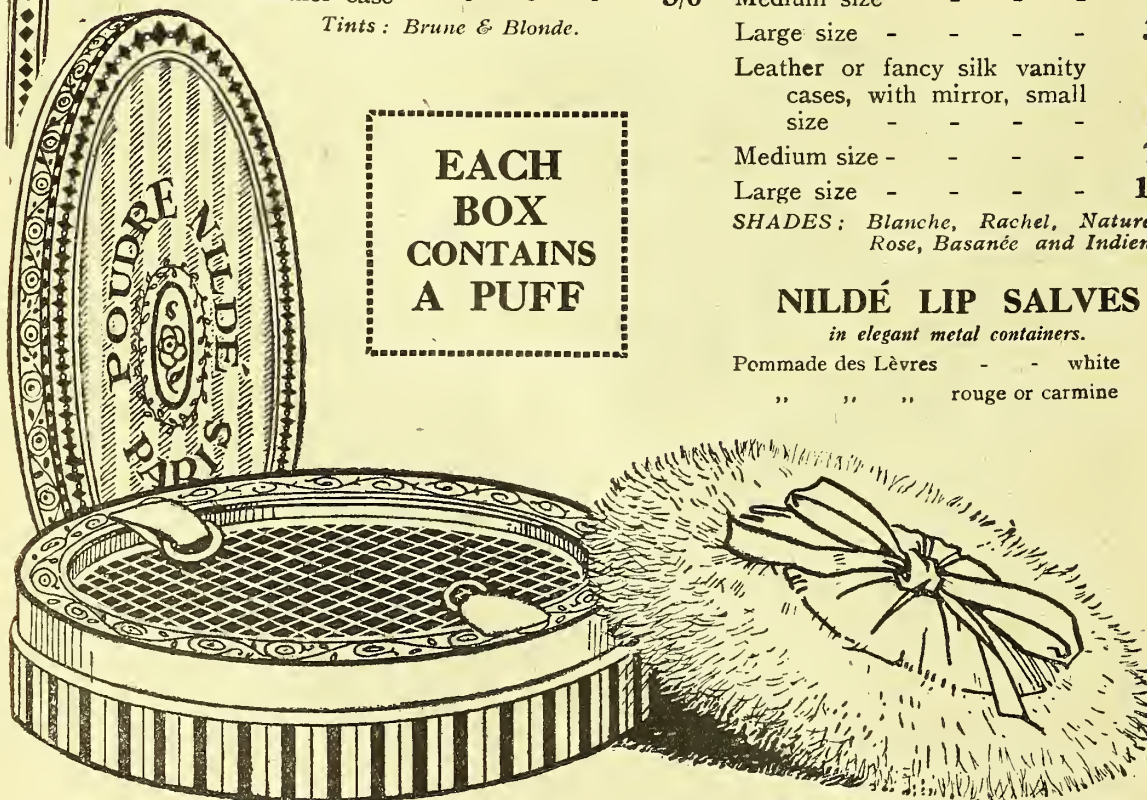
SHADES: Blanche, Rachel, Naturelle, Rose, Basanée and Indienne.

NILDÉ LIP SALVES

in elegant metal containers.

Pommade des Lèvres	- - white	1/-
" " "	rouge or carmine	1/3

**EACH
BOX
CONTAINS
A PUFF**



The Goodwill

and integrity of the Parisian House of Nildé has been established through a long period of honourable intercourse with the British Public.

CRÈME DE BEAUTÉ NILDÉ

Shows you 33 $\frac{1}{3}$ % on selling price.

Crème de Beauté Nildé is a characteristic example of Nildé products which your customers will appreciate as a *permanent* addition to the necessities of the Toilet. Its inviting appearance, together with the appeal of the name behind it, will make an easy initial sale, and after that the product recommends itself. It becomes merely a matter of meeting demand.

Recollect also that the proprietors of Nildé preparations are continually stimulating this demand by an output of attractive sales-bringing publicity, notably the recent Gift Scheme, by means of which many thousands of full-sized jars of Crème de Beauté Nildé were successfully tested by *new* customers.

MINIMUM SELLING PRICE ... 2/- LARGE ... 3/-

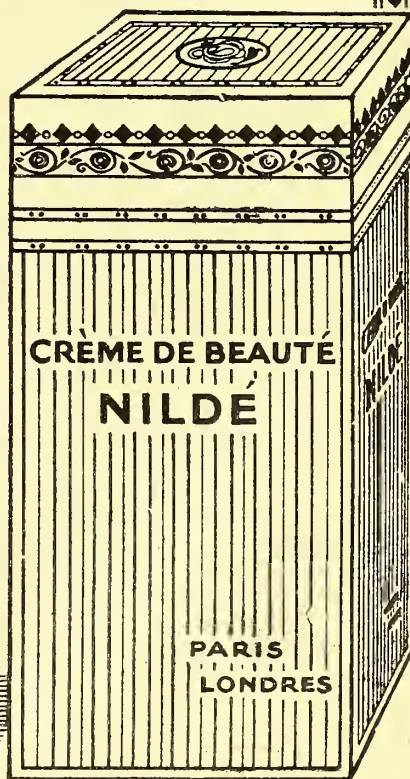
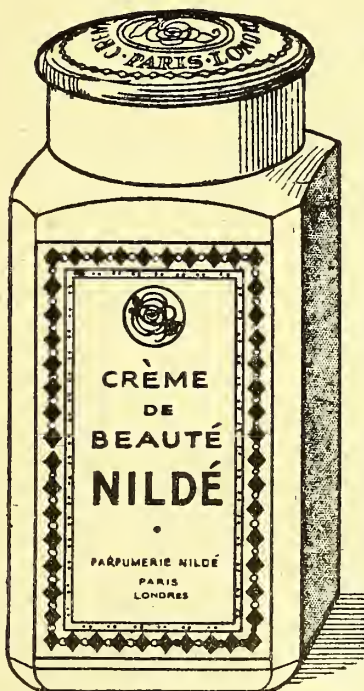
In two Shades: Blanche and Naturelle.

**ORDER THROUGH
YOUR WHOLESALE
HOUSE.**

**NILDÉ,
Paris**

*British and
Colonial Agents:*

**8 BLENHEIM ST.,
LONDON, W.1.**



Culmak

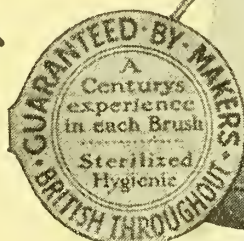
SHAVING BRUSHES

All wholesalers stock "Culmaks," and can send you a small selection "with other goods on order."

"Culmaks" are packed, either 9 brushes (1 of each kind) in a Counter Display Box, or, as required, each in a carton.

Choose your supplier from the list below, and

**Write Now—
Right Now!**



ADDITIONAL LIST.

- Messrs. Sherlock Bros., 357 City Road, E.C. 1
- „ English Brush Manufacturers,
16 Hart Street, Bloomsbury, W.C.
- „ Breezes, Ltd., 41 Union Street, Plymouth
- „ Claughtons, Ltd., 5 Quebec Street, Leeds
- „ T. McLellan & Co., Ltd.,
Castle Place, Belfast
- „ Hayes, Cunningham & Robinson,
Grafton Street, Dublin
- „ Hall & Fitzgerald, Hotwell Road, Bristol
- „ Butler & Crispe, Clerkenwell Road, E.C. 1
- „ Benton Smith, Ltd.,
Dalton Street, Birmingham
- „ D. Ferguson & Co.,
Glassford Street, Glasgow
- „ Single, Dalby & Co.,
Oldham Street, Manchester
- „ Sayers, Silcox, Cuzner & Co., Ltd.,
Prospect Street, Hull

Dressing
Pocket
Dust

COMBS

Horn or Galalith

Ebony Hand
Nickel Shaving

MIRRORS

Ebony
Rosewood
Bone Baby
Shaving
(Anthrax-Free)

HAIR BRUSHES

Ebony
Ivory
Bone

MANICURE

CASES & REQUISITES

Wholesale and Export only supplied.

A. E. DEPRETER

24 Holborn, London, E.C. 1

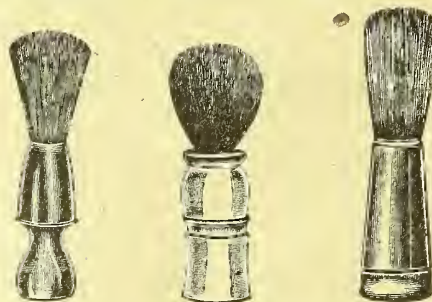
Telephone: Holborn 3182.
Telegrams: "Aedeprelon, Smith, London."

TRADE



MARK

GUARANTEED FREE FROM ANTHRAX



YOUR ENQUIRIES SOLICITED.

ARTHUR BERTON, Ltd.

15-17 Worship Street, LONDON, E.C. 2

MANCHESTER and GLASGOW

77 Lower Chatham Street.

11 Miller Street.

Telegrams: "Aybelim, Finsquare, London."
Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).

Cellophane

**What
Is It?**

CELLOPHANE

is a transparent film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat or moisture, and **sterilisable**.

An **ideal wrapping** for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency**. Can be had colourless, coloured and embossed.

Also in the shape of **Labels** for Bottles, and **Discs** for Creams, Ointments, Boot Polish, &c.

Cello-Dressings—The best substitutes for Gutta Percha and Oiled Skin. Ask for explanatory circular.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(LECLERCQ & CHARERAT),

Bolton House, Cullum Street, LONDON, E.C. 3.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C. 1.

Genuine U.S.A. Made

GILLETTE BLADES

Every Blade Guaranteed Perfect.
Final delivery of U.S.A. Army Surplus Stock, 1919

SPECIAL OFFER.

Box of 10 dozen Blades **28/6**

Two or more Boxes 28/- Carriage Paid.

H. A. CANNON,

Red Lion House, Red Lion Court, Fleet Street, E.C. 4.

"CUTEX"

Manicure Preparations



No.		P.A.T.A.
1.	"Cutex" the Ideal Cuticle Remover, Small	18/- 2/-
2.	" " " Large	36/- 4/-
4.	" Nail White ...	18/- 2/-
5.	" " Polish Cake, White	18/- 2/-
6.	" " " Pink	18/- 2/-
7.	" " " Trial Size	5/6 7½d
22.	" Nail Polish Stick, in metal tube	13/6 1/6
8.	" " Powder	13/6 1/6
9.	" Polishing Paste, Pink	18/- 2/-
10.	" " " Plain	18/- 2/-
11.	" Liquid Nail Enamel	22/6 2/6
13.	" Cuticle Comfort ...	18/- 2/-
14.	" Nail Bleach Powder	18/- 2/-
15.	" " Rouge ...	18/- 2/-
16.	" Compact Manicure Set	27/- 3/-
17.	" Travelling " " "	84/- 9/6
18.	" Boudoir " " "	168/- 19/-
31.	" Cold Cream ...	18/- 2/-

**Henry C. Quelch
& Co.,**

4 & 5 Ludgate Sq., London, E.C. 4

SOLE AGENTS FOR THE

Northam Warren Corporation, Ltd.
Montreal and New York.

"WATER WINGS"

at 13/6 per doz.



Extra Full Size, English Made, Perfect Finish.

We have a
Splendid Selection of
Bathing Caps.

Also
**Sponge Bags,
Washing Gloves,
Washing Squares,**
etc.

WM. EDWARDS & SONS, DRUGGISTS'
157 Queen Victoria Street, London, E.C. 4. SUNDRIESMEN.
Telephones:
Central 1400 & 1401.

'MILNER' Straw Hat Cleaner



Trade

Mark

12 years' reputation—testimonials constantly received.
3d. per packet.

PRICES:

6 dozen, 10/- net
12 „ 19/- „

With attractive show matter
—carriage paid—15 to dozen
for cash with order.

Discount. — Orders of £1,
2½ %; £5, 5 %; £10, 7½ %.

Milner's Chemical Co.
LIVERPOOL.

Special Clearing Lines

POCKET and SHAVING MIRRORS

BOUND IN LEATHERETTE

EXCEPTIONAL VALUE

Sample sets sent on approval provided you
agree to return same within seven days.

FRANK BUCKLER, LTD.
CASTLE WORKS TOTTENHAM, N.17

CORKS The Best Value in the Trade.

ESTABLISHED 150 YEARS.

Importers & Manufacturers of all classes of Corks

USED BY

WHOLESALE CHEMISTS, DRUGGISTS, &c.

Samples & Prices Free on Application. Special Terms for Contracts & Export Orders.

JOHN DEIGHTON & CO. Contractors to H.M. Government, War Office, etc. **YORK, ENGLAND**

Druggists' Sundries



REDUCED PRICES



AIR CUSHIONS

Fig. 1194. The "Empire" red indiarubber Air Cushion.

Diameter ...	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.
Each ...	7/6	8/-	8/6	9/6	10/6	11/6	13/-
Square shape ..	11/6	13/-	14/6	16/-	17/6	19/-	22/-

CREPE BANDAGES

	Per doz.	Width 2 in.	2½ in.	3 in.	3½ in.	4 in.
The "Saffron" Crêpe Bandage, medium substance	12 0	14 0	16 0	18 0	24 0	
" " " stout	15 0	18 0	21 0	25 0	32 0	

SEAMLESS ENEMAS

		Per doz.	s.	d.
Fig. 987. The "B.E.M." (best English make) with bone rectal pipe, etc., complete in card box		26	0	
" in superior card box	...	28	0	
" in leatherette case	...	31	0	
extra large and stout, the finest article made, in leatherette case	...	33	0	
Special Line, red, unpolished, stout, in card box	...	30	0	
" in leatherette case	...	33	0	
988. The "Empire," black polished, in card box	...	27	0	
" in leatherette case	...	30	0	
275. Warne's patent pulse valve enema, arabesque rubber, in card box	...	45	0	
" in leatherette case	...	48	0	

VAGINAL DOUCHES

	Sizes	2 pt.	3 pt.	4 pt.
Fig. 990. Vaginal Douche, japanned can, with 6 feet best rubber tubing, vulcanite stopcock with rectal and vaginal pipes, complete in box	...	3 0	3 6	4 3
Do. enamelled iron, complete in box	...	5 0	5 9	6 6
" 1067. Do. in japanned frame, with glass container	...	4 6	5 3	6 0
Spare 6 feet lengths of red rubber tubing, as used with above Douches...	...			s. d.
Spare 6 feet lengths of black and red striped, with rolled ends	per doz. lengths			12 0
" " " black or red, super quality	" "			13 0
Black or red tubing, in coils, for above	per lb.			15 0
" 993.—Set of vulcanite vaginal and rectal pipes, with stopcock as supplied with vaginal Douches	per doz. sets			5 6
				6 0

A discount of 5 % for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for illustrated PRICE LIST, post free for the asking.

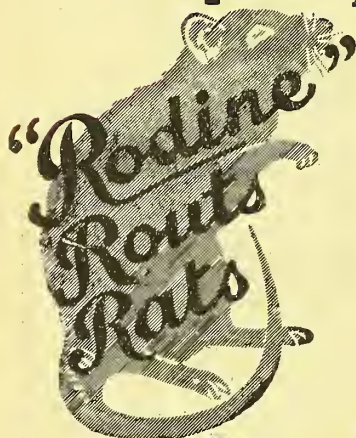
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Wills.

MR. JOHN ROBERT WALKER, Ph.C., 36 New Cavendish Street, London, W. 1, who died on January 21, left estate of the gross value of 6,365*l.* 15*s.* 8*d.*, with net personalty 3,400*l.* 12*s.* 5*d.*

MR. ALFRED WATKIN JAMES, chemist and druggist, Plasnewydd, Vivian Road, Sketty, Swansea, who died on November 4, 1920, left estate of the gross value of 1,930*l.* 13*s.*, with net personalty 87*l.* 11*s.* 2*d.*

MR. GEORGE FROST, J.P., chemist and druggist, 28 Ashbourne Road, Derby, who died on November 14, 1920, left property of the value of 28,254*l.* 7*s.* 10*d.*, the net personalty being 6,890*l.* 9*s.* 4*d.* He gives the household effects and 300*l.* to his wife; 50*l.* and 4,000*l.* in trust for his son Francis Turner Frost; 50*l.* each to his grandson Percival Frost, John Ambrose Cope, Arthur N. Whiston, and Barbara Gentiles; 50*l.* to the Royal Institute for the Deaf and Dumb, Derby; 50*l.* to his servant Ellen Ratcliffe; and the residue of the property as to one-third to his wife and two-thirds to his son George Percy Howard Frost.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

British Pharmaceutical Conference.

At a meeting of the local Committee held at Scarborough on March 22, Mr. T. W. Longdin was elected chairman of the entertainments sub-committee. Programmes for smoking concerts, dance, etc., were drawn up. It was reported that all members of the Conference would be admitted as honorary members of the Philosophical and Archaeological Society, and all Masons as honorary members of the Scarborough Masonic Club (which is just opposite headquarters) during their stay.

German Reparation (Recovery) Act.

The Board of Trade has appointed a Committee under the provisions of the German Reparation (Recovery) Act which came in force on March 31. The Committee consists of the following: Mr. H. A. Trotter, Deputy-Governor of the Bank of England (chairman), Mr. H. B. Betterton, M.P., Mr. F. R. Davenport, Mr. Stanley Machin (President of the London Chamber of Commerce), Mr. D. Withers, and Captain G. W. Duncan (secretary). Applications to the Board of Trade to make any order under any of the provisions of the Act should be addressed to the Secretary, Board of Trade, Great George Street, Westminster.

The Custom House, London, E.C., has issued a notice in connection with the German Reparation (Recovery) Act which contains the following information:

The Act comes into force as from April 1, 1921, inclusive. Goods imported in transhipment or in transit and dealt with under the appropriate Customs regulations are exempt.

The goods on which the 50 per cent. levy is made are: (a) Goods first consigned from Germany, irrespective of the place of manufacture or production; (b) goods wholly manufactured or produced in Germany, irrespective of the place whence consigned to the United Kingdom; (c) goods partially manufactured or produced in Germany, irrespective of the place whence consigned to the United Kingdom, unless 25 per cent. or more of the value of the goods is attributable to processes of manufacture undergone since the goods last left Germany.

The value of imported German goods for the purposes of the Act is the amount which an importer would give for them excluding freight and insurance, but including the amount payable to the Commissioners under the Act. The Act gives the Commissioners power to determine value, but without prejudice to such power the sum stated in an invoice of goods imported on sale to be the price of the goods will, if it includes the sum payable to the Commissioners under the Act, be taken as *prima facie* evidence of the value of the goods.

The Act does not apply to goods imported before April 15, provided the contract was entered into before March 8 last. Information on this point is given in another leaflet.

Entries for all goods from Europe claimed to be outside the operation of the Act must contain a declaration to that effect, which must be supported by a certificate of origin, signed by a British Consular officer, except where the goods are valued at under 5*l.*

British-made Yeast.

A sub-committee of the Standing Committee on Trusts has issued a report of an investigation of the costs and profits of manufacturers of and dealers in yeast. The manufacturers' selling price is now 105 per cent. above the pre-war figure. The home consumption of yeast is about 635 tons per week, and of this 70 tons is of foreign origin. The sub-committee find that prices at all stages of distribution, although technically free from the control of the distillers, are undoubtedly virtually controlled by them through the merchants in whom they are interested financially. They are satisfied from the evidence that the chief distillers would not directly supply any but their own agents with yeast, and would not appoint any additional agents, and that no person or firm other than an already recognised dealer could obtain supplies of British yeast for resale, except by acquiring the business of an established dealer. It is manifest from the evidence that

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the association has the power to control, and, if considered necessary, to stop supplies of British yeast to any trader. The report adds that unrestricted imports form a safeguard against the fixing of artificial prices for yeast. If British makers are protected against imported yeast legislation will need to be provided for the surveillance of trusts and monopolies.

Poison-licence Applications.

Mr. E. C. Bedford, grocer, Great Missenden, has applied to the Buckinghamshire County Council for a licence to sell agricultural and horticultural poisons.

On consideration of applications for poison-licences under Section 2 of the Poisons and Pharmacy Act, 1908, being reached at a recent meeting of the Mansfield town council, a letter was read from Mr. A. H. Bell, Ph.C., secretary of the Notts County Pharmacists' Association, asking for permission to send delegates to a meeting of the general purposes committee with reference to the granting of such licences. This request was agreed to, the town clerk stating that the applicants must be equally at liberty to send their representatives.

At a meeting of the Newbury town council, on March 22, Mr. H. R. Metcalf, Ph.C., moved that licences to sell horticultural poisons should not be issued except to qualified chemists, arguing that it was necessary to safeguard the public by allowing none but competent persons to handle the dangerous preparations sold as weed-killers, insecticides, etc. Another member of the council, in opposing the motion, suggested that, even if the sale were confined to chemists, the goods would be handled by untrained assistants. The motion was lost by thirteen votes against four.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Brighton, William Henry Johnson, bookmaker, committed suicide by taking chloroform.

At Islington, London, N., Herbert F. G. Van Hooydonk, electrical engineer, committed suicide by taking potassium cyanide while of unsound mind.

At Manchester, Mr. James Sowrey, chemist and druggist, a member of the staff of Mr. J. W. Parrish, dry-salter, Broughton Street, committed suicide by taking opium. It was stated at the inquest that some irregularity had been disclosed in his accounts.

An inquest was held at Thurning, Oundle, on March 23, on the body of Herbert Clarkson, a Press photographer, who specialised in animal photography. Evidence showed that Mr. Clarkson had suffered from insomnia and had been taking drugs, generally chloral. A medical witness said that the deceased had admitted to him that he had taken "mercury" in order to make him sleep. Death was due to poisoning by perchloride of mercury. Probably, added the doctor, Mr. Clarkson's brain had been affected by his taking chloral. A verdict in accordance with the evidence was returned.

Contracts.

The following tenders have been accepted by the bodies named:

Coventry Guardians.—Burgoyne, Burbidges & Co., Ltd., drugs (wholesale); Mr. C. H. Reid, chemist and druggist, drugs (retail); Robinson & Sons, Ltd., surgical dressings.

Cranbrook Guardians.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, medical appliances.

Merthyr Tydfil Guardians.—Mr. V. A. Wills, chemist and druggist, drugs, etc.

Romsey Guardians.—Mr. F. Oram, Ph.C., drugs, etc.

Stockton-on-Tees Guardians.—Mr. T. W. Salmon, chemist and druggist, drugs.

Trowbridge Guardians.—Mr. E. J. Hughes, chemist and druggist, Melksham, drugs, etc.

West Bromwich Guardians.—Southall Bros. & Barclay, Ltd., drugs, etc.

Birmingham.

Cadbury Bros., Ltd., have acquired the Blackpole cartridge-filling factory, near Worcester.

Several Bearwood traders have recently been fined for keeping their shops open during prohibited hours.

Mr. James Coventry, chairman of the Birmingham Press Club, who is a frequent visitor at pharmacy gatherings, presided at the unveiling, on March 28, of a carved oak war-memorial panel on which sixteen names are inscribed.

In Birmingham County Court, on March 23, Mr. Wathes, chemist and druggist (Wathes Brothers), was the plaintiff in a case in which it was alleged that milk had been supplied by him at a charge exceeding the controlled price. The judge held that the defendant was a party to the increased charge and gave judgment for the plaintiff, dismissing a counter-claim.

Among the letters in the local Press in reply to criticisms upon chemists for their part in the sale of foreign goods (*C. & D.*, March 26, p. 62) is one from Mr. George Knowles, chemist and druggist, Harborne, who writes in defence of the pharmacists in his neighbourhood and blames the public for the large sale of foreign proprietaries in this country. Another letter, from Mr. Harold Rayne, chemist and druggist, Pershore Road, explains the status of the pharmacist of to-day, whose honesty, in business is not always appreciated by the general public.

Leicester.

Local pharmacists are enthusiastic over the chances of their team in the final football match for the Thursday Cup (*Pharmacy v. The Army*), arranged to take place on the "City" ground on April 7.

Displays of dyes are now being made in the City Pharmacy.—Real turf is once more in evidence in Messrs. Young's window. A guide-post, indicating the way to happiness and local places of interest, is the central feature, supplementary cards telling the reader that a holiday can be made real and lasting with the aid of a camera.—A Ucal window-dressing competition has been responsible for some excellent shows on the part of the local agents.

Liverpool.

Signs pointing to improving trade are being noted with pleasure.

Following the precedent of his predecessor, the Lord Mayor has just accepted an invitation of the Liverpool Chemists' Association.

Mr. William P. Evans, chairman of Evans Sons Lescher & Webb, Ltd., has been playing this week in the Royal St. David's meeting over the Harlech golf links.

The two local pharmacists (Mr. Henry Peet and Mr. Harold Wyatt) who are justices of the peace find that a considerable part of their time at the counter is taken up by men and women, chiefly the latter, who bring documents and declarations to be witnessed.

The Liverpool programme of last year's British Pharmaceutical Conference is serving as a model for another national conference to be held in the city in September. It is of interest, in this connection, to record that Archdeacon Spooner, the preacher at the special Conference service in the Cathedral, has accepted the living of Halsall, Ormskirk.

Ayrton, Saunders & Co., Ltd., are conducting their business as from April 2 at the temporary headquarters and town department, 58 Hanover Street. Travellers' samples have been called in for the use of the labels as "copy," and the travelling exhibition has been brought back from Scarborough. About a hundred of the "burnt out" staff have already been re-engaged.

In connection with the smoking concert in aid of the Pharmaceutical Society's Benevolent Fund at the Adelphi Hotel on March 30, the Liverpool Chemists' Association arranged a private dinner to the President of the Society (Mr. E. T. Neathercoat). During the evening a dining-room clock was presented to Mr. W. Wellings in recognition of his twenty-five years' service as treasurer.

A "rally" of Rexall assistants and apprentices was held at the head office of the United Drug Co., Old Hall Street, recently. "Talks" on topical subjects were given by

Mr. J. W. Deakin (President), Mr. Martin L. Daniels (assistant-manager), Mr. Harold Lomax (secretary), Miss Betty Jackson, Mr. Cocker, Mr. Wallington, Mr. C. Dean, and the Lancashire and Midlands representatives of the company (Messrs. Griffiths and Holloway). The meeting afterwards dissolved into parties, and visited various restaurants and a theatre.

At a conference of the National Union of Distributive and Allied Workers held at Liverpool on March 28, a resolution was passed authorising the executive of the Union to take steps to bring about an amalgamation with the National Drug and Chemical Union, the membership of which was given as 8,000. The seconder of the resolution said that in a few years the British drug and fine-chemical trades would be controlled by a huge American combine, which would undercut and "nobble," if humanly possible, the whole industry of retail pharmacy.

Manchester.

Mr. M. Chazan, chemist and druggist, has opened a new pharmacy in Broughton Lane, Salford.

Boots, Ltd., have opened at 39 Market Street a "business systems" department, equipped with filing cabinets, desks, and other accessories.

Several boys were taken into custody on March 28 in connection with the scratching of shop-windows, to which nuisance attention has been lately called.

Papers have been issued to all the members of the Manchester Pharmaceutical Association for the nomination of candidates for the Council to be elected at the annual general meeting on April 13.

At a conference of the National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks in Manchester on March 28, resolutions were passed in favour of the following: (1) A forty-eight-hour week; (2) local authorities being given power to draft an earlier closing-hour than 7 p.m.; (3) shop assistants who have been employed in a district for six months being eligible to vote in respect to a closing order as well as shopkeepers; (4) payment of wages earlier in the week, with a view to securing a general early closing of shops and the half-holiday for employees on Saturdays.

Miscellaneous.

BURGLARY.—The premises of Mr. H. C. Edwards, chemist and druggist, Hastings, were broken into on March 24; a number of articles were stolen.

LONDON VAN HORSE PARADE.—Among the successful competitors at the London Van Horse Society's Easter Monday Parade were Burroughs Wellcome & Co., Snow Hill, E.C. 1 (two entries), and Sangers, Hampstead Road, N.W. 1 (eight entries). Both these firms secured a first prize for each entry in open competition.

IN THE COURTS.—At Marylebone Police Court, London, on March 30, Nellie Rogers, a packer, was remanded on a charge of stealing four bottles of perfume and other articles, the property of her employers, Francis, Drake & Co., wholesale perfumers, Eden Street, N.W. 1, the magistrate remarking that it was only because she was "such a child" that he did not sentence her to three months' imprisonment forthwith.—At Sunderland Petty Sessions, recently, James Bowers (67), charged with attempting suicide by taking hydrochloric acid, was discharged to the care of his relatives.

CHARGE OF FORGING PRESCRIPTIONS.—At Marylebone Police Court, London, on March 29, John D. E. Dudley (28), Leinster Square, Bayswater, described as a general merchant, was charged with forging and uttering two requests for solution of cocaine hydrochloride, on March 19 and 21, with intent to deceive; with having 18 gr. of cocaine hydrochloride in his possession; and with attempting to procure a further 18 gr. from William Whiteley, Ltd. A detective-inspector, giving evidence, quoted the following from a statement made to him by the accused: "I have used the name Lambrinudi and other names, and have obtained the cocaine and other drugs from a number of chemists near by." The witness added that tubes which

had contained heroin, morphine, and other poisons were found in Dudley's bedroom. A remand was ordered.

EXCISABLE LIQUOR IN CHOCOLATES.—At Old Street Police Court, London, on March 26, the hearing of the case in which Helm Chocolate, Ltd., Wallington, were summoned for selling spirits (in chocolates) without taking out a licence (*C. & D.*, March 26, p. 63) was concluded. It was stated for the defence that in order to get a small "tot" of whisky (30 degrees under proof), the purchaser would have to eat 3 lb. 6 oz. of the chocolates. The magistrate said that the position was absurd whichever way he decided. He should have thought it was not a matter so much for legislation or the decision of the Court as the pronouncement of the Excise authorities as to what they would consider such a sale of spirits as to bring the vendor within the provisions of the Excise Acts. He ordered payment of 5*l.* 5*s.* costs, but, at the request of counsel for the defence, he altered this to a fine of 5*s.* and 5*l.* costs. Mr. Beattie (prosecuting counsel) said the matter mentioned by his worship had been considered by the Commissioners, and there were certain difficulties in declaring definite figures.

PRIVATE MEETING.—A meeting of the creditors of A. H. Glover, trading as the Delphinus Manufacturing Co., manufacturers of toilet preparations, 45 Edward Street, Brighton, was held on March 22, at the offices of Mr. O. Sunderland, accountant and auditor, 15 Eastcheap, London, E.C. A statement of affairs was presented which showed liabilities of 2,658*l.* 10*s.* 8*d.*, of which 451*l.* 5*s.* 5*d.* was due to trade creditors. The net assets were 302*l.* 7*s.* 7*d.*, or a deficiency of 2,356*l.* 3*s.* 1*d.* The statement showed that the goodwill, together with the recipes, designs, and printed matter, had cost a sum of approximately 1,300*l.*, but no value was placed upon them in the statement of affairs. Mr. Sunderland stated that the cash creditors were the debtors' father and mother. The former had lent about 800*l.*, while the mother was a creditor for 1,200*l.* The money was advanced to enable the debtor to purchase the business and to carry it on. The debtor purchased the business about fourteen months ago and agreed to pay 1,050*l.* for the goodwill, designs, and recipes, while the stock was taken at valuation. On the trading it did not appear that the debtor made a very good bargain, as during the first nine months his turnover was less than 1,000*l.*, and there was a net loss on the trading of 1,226*l.* after taking the drawings into account. At the present time practically no trade was being done, and the prospect of selling the business as a going concern was not very bright. After discussing the position the creditors decided that the estate should be dealt with under a deed of assignment, with Mr. O. Sunderland as trustee, while a committee of five of the principal creditors was also elected. The following are among the creditors: Brooks, Peel & Co., Ltd., 79*l.*; W. J. Bush & Co., Ltd., 16*l.*; Johnson & Jorgensen, Ltd., 20*l.*; Methylating Co., Ltd., 10*l.*; Robinson & Sons, Ltd. (Chesterfield), 89*l.*; and Sutton & Co., 13*l.*



MEET OF THE PUCKERIDGE HOUNDS OUTSIDE THE SHOP OF MR. HENRY FRY, CHEMIST, BUNTINGFORD, HERTS.

Irish News.

Brevities.

Mr. J. A. Woodside, Ph.C., Ballymena, has been elected Vice-President of the Ballymena and District Motor Cycle Club.

Mr. Samuel Nevin, R.D., was among those elected as hon. Vice-Presidents at the recent annual meeting of the Ulster Retail Drug Trade Association (*C. & D.*, March 19, p. 59).

On March 24, Mr. J. T. O'Sullivan, R.D., 105 Old George's Street, Cork, whose shop was looted during the December disturbances in Cork, was granted 150*l.* by the Recorder of Cork.

At Dungannon Quarter Sessions, recently, T. W. Reynolds, Ltd., chemists and druggists, Dungannon, sued a farmer for 50*l.* for the smashing of plate-glass on November 1 by defendant's cart, which had been backed into two large shop windows. The Judge gave a decree for the full amount.

The Bawuboy Board of Guardians have appointed Mr. B. J. Fagan, Dublin, public analyst, in succession to the late Sir Charles Cameron, at 6*s.* per sample. Mr. John Hawthorne, B.A., Ph.D. (Fotton & Hawthorne), has been appointed public analyst for co. Down, pending a permanent appointment.

At Londonderry Assizes, recently, Mrs. Huey, Victoria Park, Londonderry, brought an action against W. J. Baxter & Co., chemists and druggists, Coleraine, for the recovery of 35*l.*, a half-year's rent of the premises occupied by the defendants. Mr. Justice Gibson gave judgment for the plaintiff, who undertook to complete the sale of the premises to the defendants at 1,200*l.*

Position of Pharmacy in Ireland.

A meeting of the Committee appointed to safeguard the interests of pharmacists under the new Northern Parliament (*C. & D.*, March 26, p. 73) was held last week in Belfast, Mr. James Tate, M.C.P.S.I., in the chair. Mr. James Guiler, M.P.S.I., Ormeau Road, was elected chairman of committee. After a discussion it was agreed to approach the Pharmaceutical Society of Ireland with a view to obtaining an expression of opinion from the Solicitor-General for Ireland, as a law officer of the Crown, as to the exact status of pharmacists under the respective Parliaments to be set up by the Government of Ireland Act.

Drugs and Surgical Appliances Contracts.

At the Dunshaughlin Guardians' meeting the cheapest tender for medical and surgical appliances was that of Fannin & Co., Ltd., Dublin, who offered a rebate of 21½ per cent. off list prices, provided payment was made within three months. The chairman said they could not bind themselves, and the tender of Boileau & Boyd, Ltd., was accepted. The following contracts have been declared by public bodies in Ireland, the percentages, when given, being those allowed off the Local Government Board's list prices as discount. The public bodies named are boards of guardians unless otherwise stated:

Union		Medicines		Appliances
Clonmel...	...	Boileau & Boyd, Ltd., Dublin, 18½%	...	Fielding's Pharmacy, Cork, 18%
Monaghan	...	Do.	...	Boileau & Boyd, Ltd., —
Dunshaughlin	...	Do. 17½%	...	Do., 17½%

Belfast.

Sir Wm. Whitla, M.P., L.P.S.I., has been elected President of the Queen's University Unionist Graduates' Association of Belfast.

At the annual meeting of the Belfast Society for work among the blind, a vote of thanks was passed to Mr. J. B. Robinson, Ph.C., for his valuable services during the year.

The Military Court of Inquiry which, in lieu of an inquest, investigated the death of Michael Garvey, R.D., who was shot at his lodgings, 1 Bray Street, Belfast, on January 26 (*C. & D.*, February 5, p. 49), issued a report on March 25, in which the finding of "Wilful murder against some person or persons unknown," was returned.

During the consideration of tenders for the medicine and medical and surgical appliances contract at a meeting of Belfast Guardians on March 22, it appeared that the lowest tender was from a Dublin firm. Mr. D. A. Fee, J.P., moved that the Guardians ask the Local Government Board for permission to accept the lowest tender from the Province of Ulster. There was, he said, a boycott against Belfast merchants by the rest of Ireland, and the only way to meet that boycott was by a counter-boycott. Mr. J. E. Hall seconded. Mr. W. A. Bell, J.P., said as the Dublin tender was the lowest he thought they should accept it, and thus set a good example to the rest of the country. The chairman refused to accept Mr. Fee's motion, and the Dublin tender of Fannin & Co., Ltd., at 22½ per cent. off list prices, was accordingly accepted by thirteen votes to six. Shaw & Jamison, Belfast, obtained the medicine contract at 33½ per cent. abatement.

Scottish News.

Brevities.

Over 200 delegates will take part in the convention of Insurance Committees, to be held in Stirling during September. A civic welcome will be extended to the convention.

A lecture entitled "Some Aspects of the Chemists' Work in the War" was recently given by Principal Irvine, St. Andrews University, before the members of the Paisley Philosophical Institution.

The recent gales in the Hebrides have done a considerable amount of damage. At Stornoway the premises of Macpherson & Co., Ltd., chemists, appear, from a photograph, to have been in imminent danger of being flooded by the sea, the debris from the municipal buildings arresting the waves.

A bottle exchange in the North is anxious to put down the practice by the public of using branded bottles for home-made ginger cordial, and with this end in view is trying to persuade retailers of ginger-wine essence, who provide labels for the wine, to give up issuing such labels. It is not obvious what difference that would make to the exchange, as the public will use whatever bottles may be at hand.

"The remarks of 'Xrayser II.' on Mr. Cunninghame Graham's new book [*C. & D.*, March 19, p. 63] were read with interest by Scottish chemists," writes a correspondent. "Mr. Graham at one time owned the estate of Gartmore, in Perthshire. His wife, who, by the way, was a Spaniard, loved Scotland, and was buried on an island in the Lake of Monteith. Gartmore estate was sold to the late Sir Charles Cayzer, father-in-law of Lord Jellicoe."

A report on the drinking of methylated spirit in Scotland is to be submitted to the forthcoming convention of burghs (see p. 53). Among the measures which, it is suggested, might be considered with a view to checking the evil are: (1) No person to be allowed to purchase methylated spirit without obtaining a permit. (2) In addition to the existing Excise licence, no person should be allowed to traffic in methylated spirit without obtaining a licence. (3) The local authority should be entitled to define the conditions on which the licences are granted.

Dundee.

Mr. Joseph Rosenzweig, chemist and druggist, who was formerly in business in Nethergate, was, on March 27, on the occasion of his retirement from the office of President of the Synagogue Executive, presented by the members of the Dundee Hebrew congregation with a gold cigarette-case.

Edinburgh.

Local chemists are still waiting for a first payment for Ministry of Pensions' prescriptions.

A Saturday night visitor to local pharmacy demanded "A box o' precept ointment." Chemist: "Red or white, sir?" Visitor: "Naw. Aa want the blue."

Mr. A. F. Cadell, chemist and druggist, who recently passed the Final examination for "the triple qualification," has gone into practice with Dr. J. Fayle Seale.

Edinburgh Chemists' Golf Club held a competition, on March 23, over Camm's course, Cramond Brig, with the following result: (1) Mr. Butchart, 83-9=74; (2) Mr. J. Brown, 99-22=77; (3) Mr. A. J. Kearney, 85-7=78. The next competition will take place on April 13 over Torphin course.

In a paper on "An experimental analysis of the losses due to evaporation of liquid air contained in vacuum flasks," at a recent meeting of the Royal Society of Edinburgh, Professor Henry Briggs, D.Sc., explained how greatly the use of liquid air and liquid oxygen is extending for both scientific and commercial purposes.

Fife.

Mr. J. Carmichael, chemist and druggist, Leslie, has been elected Vice-President of the Fifeshire Bowling Association.

Mr. R. S. Herd, chemist and druggist, who was formerly in business at 101 High Street, Kirkcaldy, has sailed for Australia.

Methylated-spirit Drinking.

The sale of methylated spirit for human consumption is to be a subject of discussion at the forthcoming convention of burghs of Scotland. Many suggestions are being made with a view to preventing, so far as possible, this consumption (see p. 52). At the moment the centre of interest for pharmacists is a controversy that has sprung up over an observation occurring in a memorandum issued by Dr. M. Williamson, medical officer of health for Edinburgh. Dr. Williamson, the memorandum states, has "ascertained" that the spirit "is not only sold in large quantity by drysalters in the city, but that the demand at many large chemists' shops is daily an extraordinary one. At certain times there are small queues of waiting purchasers." Mr. J. Rutherford Hill, Ph.C., resident secretary of the Pharmaceutical Society, has sent a lengthy reply, dated March 25, to the Press. In the course of his letter Mr. Hill remarks:

The abuse of methylated spirit as an intoxicant has engaged the attention of this Society for many years. Some three years ago we sent a letter to every person, firm, and body corporate in Scotland, carrying on business as chemists, directing attention to the danger, under the abnormal conditions, of persons purchasing methylated spirit for improper purposes. . . . I can only express regret that he [Dr. Williamson] should not have let us know if such things are going on, because we have disciplinary powers over our members, and are most anxious at all times to co-operate with public authorities. . . .

In the course of a statement published in the Edinburgh "Evening News," Dr. Williamson says: "I observe that Mr. Rutherford Hill expresses regret that he should not have been informed of the presence of methylated-spirit drinking in the city. . . . Why should he have been so informed? In his letter he himself states that three years ago he was in full possession of the facts. . . ." A letter signed "Chemist, M.P.S.," while agreeing with Mr. Hill "in the main issue," concludes as follows: "I would like, however, to ask Mr. Hill what section of the Pharmacy Acts gives either himself or the Pharmaceutical Society 'disciplinary powers' over 'every person, firm, and body corporate in Scotland, carrying on business as chemists.'"

ANT-EXTERMINATOR WANTED.—H.M. Commercial Secretary at Bogota reports an urgent demand in the Santa Marta district for a good ant-exterminator for use on the local coffee plantations. It appears that practically all the estates are infested with quantities of large brown ants, which devour everything in sight, including the young coffee shrubs.

Netherlands Notes.

(From the "C. & D." Correspondent.)

THE ANNUAL MEETING OF THE DUTCH PHARMACEUTICAL SOCIETY (Nederlandsche Maatschappij ter Bevordering der Pharmacie) will be held in Maastricht (Limburg) in the summer of 1921.

CAPTAIN E. T. VAN ITALLIE, a Dutch military pharmacist of the first class, is leaving the military service in order to work as assistant in chemico-pharmaceutical researches on behalf of the new Government pharmacotherapeutic institute, in the laboratory of Professor P. van der Wielen, the University of Amsterdam, who is one of the members of this institute.

PHARMACISTS IN THE DUTCH EAST INDIES.—According to a recent Government decree the military and Government pharmacists with at least three years of military or Government service can obtain the authorisation to practise their profession after leaving the service, throughout the territory of the Dutch East Indies, without qualifying, if their superiors agree that they are thoroughly efficient. At present there is a great need of pharmacists in the Dutch East Indies. It has been necessary from time to time, with a view to meeting the urgent need of pharmaceutical help, to admit foreign pharmacists, who are not qualified according to the Dutch laws, as military pharmacists in the Dutch East Indies.

EXPORT RESTRICTIONS WITHDRAWN.—It is no longer forbidden to export from Holland whale-oil, shellac, coal-tar dyes, charcoal, asbestos, gelatin, animal fats and mixtures thereof, and mixtures of animal fats with vegetable fixed oils or fats, medicaments (except opium and all its derivatives and cocaine), and surgical-dressing material. H.M. Secretary at The Hague notifies that prohibition on the exportation of the following articles from the Netherlands has been withdrawn: Acetone, Chinese wood-oil, coal-tar dyestuffs, and oil derivatives therefrom used in, or applied to, the process of dyeing, gypsum, logwood and woods used for dyeing and extracts thereof, medicines, bandages and material used in the preparation thereof, resin, shellac, train oil, wood-tar and pitch.

INCREASE OF THE EXCISE-DUTY.—A Bill regarding the increase of the excise-duty on spirits and the tax on methylated spirit has just been passed. In the explanation of the Bill the Minister of Finance states that the Government expenses have exceedingly increased of late, so that he has been obliged to seek, with the shortest delay possible, a means for supporting the Treasury. A few years ago the excise-duty was increased from 90 to 150 florins per hectolitre 50 per cent. It appears that the quantity of spirits consumed yearly has not diminished in consequence, and that explains why the Minister of Finance now proposes to double the excise-duty on spirits—that is to say, to advance it to 300 florins per hectolitre 50 per cent. The values of spirit-dues is estimated to reach from ten to fifteen millions annually. To prevent adulteration with methylated spirit, it has been decided to increase the tax on the latter product. Freedom from excise-duty will be extended to those industries already exempted. Pharmacists have not obtained this privilege, and Dr. J. B. L. van der Marck proposes in a recent number of the "Pharmaceutisch Weekblad" to use alcohol, denatured with about $\frac{1}{2}$ per cent. of petroleum benzine of a boiling-point of 200° C., for the preparation of medicaments for external use. For industrial purposes the above-mentioned denatured spirit is obtainable free from excise-duty. The chairman and secretary of the Nederlandsche Maatschappij ter Bevordering der Pharmacie, Dr. H. L. Visser and Mr. V. van Itallie, have sent an address to the Second Chamber of the States-General pointing out that the preparation of alcoholic medicaments by the pharmacists will become impossible as a result of the new decree. The board of the Dutch Pharmaceutical Society has, therefore, asked for exemption for pharmacists for the preparation of medicaments.

French News.

(From the "C. & D." Paris Correspondent.)

SECOND-LIEUTENANT ENAULT, of the 113th Artillery, who has been awarded the War Cross for gallantry on May 1, 1918 (when he was severely wounded), is in civil life a pharmacy student and Vice-President of the Amical Association of Pharmacy Students.

HISTORY OF MEDICINE.—The second International Congress of the History of Medicine, to be held at the Paris Faculty of Medicine from July 1 to 5, comprises three sections—medical, pharmaceutical, and veterinary. A retrospective exhibition of instruments, medals, engravings, books, etc., etc., is being organised, and the Bureau of the Congress solicits the temporary loan of such objects. The secretary (who will give all details) is Dr. Laignel-Lavastine, 12 bis Place de Laborde, Paris.

TRANSPORTING RADIUM.—Madame Curie is making a personal visit to the United States for the purpose of bringing over the gramme of radium presented to her by the women of America, on the initiative of Mrs. Marie Maloney, of the "Delineator." It will be divided into twelve portions and placed in a lead-lined receptacle. This tiny box, about two inches square, will naturally be kept in the "strong box" of the Atlantic liner during the voyage home, representing as it does a value of about two million francs.

THE WHOLESALE DRUGGISTS' ASSOCIATION has called the attention of the French Customs authorities to the fact that for some time German firms have been forwarding poisons by registered post. This action will, it is hoped, put a stop to this illicit traffic. The Wholesale Druggists' Association celebrated its thirteenth birthday on March 15. The first (1908) meeting was held in the premises of the Chemicals Trade Association. M. Charles Buchet was offered the chairmanship, but declined. He consented, however, to act as treasurer, a post he still holds. The yearly subscription was then 30 fr.; in 1907 it was increased to 60 fr., and in 1919 to 120 fr. In spite of this the number of members has increased (from 146 in 1908 and 250 in 1919) to 280.

GERMAN REPARATION.—The endless discussion as to the indemnity to be paid by Germany is nowhere followed with keener interest than in the war-stricken areas, where the work of reconstruction goes on steadily, if somewhat slowly. In one of the main business streets of Amiens I noticed a pharmacy still closed and in the dilapidated condition familiar to all who have seen bombarded towns. I was told that the proprietor was carrying out repairs and renovation in exact proportion to the money paid by the Government—i.e., not advancing his own money or borrowing on the strength of his claim—which explained this survival of ruin in a part of the town where most of the damage has been made good. Some workmen were removing the remains of the large window show-jars when I passed.

A FRENCH DRUG COLLEGE.—The success of the German "drug colleges" (that of Stuttgart is said to have granted 1,000 or 1,200 diplomas) has suggested to the Paris Wholesale Druggists' Association a scheme for the technical education of their employees. Prof. Perrot, of the Paris Faculty of Pharmacy, has offered to organise and direct the courses of study, aided by M. Goris, assistant-professor at the Faculty; M. Mascré, hospital pharmacist; MM. Maheu and Weitz, preparators; M. Blaque and M. Liot. He thinks 5,000 fr. will cover the cost. The general idea is to give employees of drug firms the chance of examining and studying at leisure the products they handle; and as greater efficiency in business usually implies the possibility of a higher salary, it is hoped that the employees will understand the desirability of devoting their time to this subject.

M. CROCHETELLE, director of the agronomic station of the Somme, speaking at an agricultural dinner recently, alluded to the still disputed question of the value of the soil in the war-swept zone. Citing Berthelot's theory that soil lives and has its physical, chemical, and bacteriological

properties, he explained that the disturbance caused by persistent and searching shell-fire might be beneficial or otherwise according to the nature of the soil, so far as the chemical aspect was concerned. From a bacteriological point of view, the surface bacteria, which draw oxygen from the air and transform manure into ammonia and nitrogen, are beneficial, while those living at a lower level are their natural enemies, and live at their expense. By leaving the land waste, these latter ferments had been developed at the expense of the nitrifying microbes. He was astonished, therefore, that in a Ministry of State assertions should be made that the soil had benefited.

PARIS SOCIETY OF PHARMACY.—Perhaps the most important incident of the March meeting of this Society was the election of a general secretary. Professor Grimbert had expressed his willingness to accept the post left vacant by the recent death of M. Bourquelot, and was elected practically *nem. con.* Professor Bouvier, of the Museum, was elected an Associate member, Mr. E. M. Holmes a foreign corresponding member, while six corresponding French members were also chosen, MM. Escaich, Juillet, Robin, Rodillon, Thumann, and Volmar. The President formally complimented M. Herissey, who has been elected as a member of the Royal Society of Pharmacy of Brussels, and M. François, who has received the Cross of the Legion of Honour. Only one paper was read, by M. Tiffeneau, on adrenalin and preparations of the suprarenal gland, but this attracted some attention and raised an interesting discussion, among the points referred to being the colorimetric estimation of adrenalin, the utility (not to say the necessity) of physiological as well as chemical tests of opotheric preparations, and the worthlessness of some of those sold in commerce.

RECOGNISING WAR SERVICES.—By a curious chance I met M. L. G. Toraude on the very day he first wore his red ribbon, and naturally inquired whether he was nominated as Chevalier of the Legion of Honour for pharmaceutical or for literary merit, as he is a clever writer as well as a leading pharmacist. As a matter of fact, neither of my suppositions was accurate, for the services he rendered during the war at the voluntary hospital at Asnières, the suburb of Paris where he then kept open shop, were rather philanthropic and patriotic than pharmaceutical; the supply of medicaments, etc., only representing a small part of his personal labours and financial sacrifices. Although this is the only service mentioned in the "Officiel," his friends are aware that it is not his only claim to public recognition. At the time of the morphine shortage he drew up an exhaustive report for the Ministry of War on this and other scarce drugs and the best method of insuring economy in their use. The adoption of his conclusions did much to solve a knotty question, as well as to prevent undue expenditure. He has recently left his retail business, and the office where I met him was that of a large Paris wholesale chemical firm with which he is now connected.

THE AMICAL ASSOCIATION OF PHARMACY STUDENTS has recently placed in the reception room of its premises (Boulevard St.-Michel) a marble slab inscribed with the names of those who fell during the war—15 per cent. of its total membership. Practically suspended during the war, the Association is now resuming its activities. The drug collection (for study and identification exercises), which is one of the features of the premises, has been renewed by the generosity of leading Parisian wholesale firms. The first annual ball held since the war, came off a few weeks ago in the Salle des Sociétés Savantes, M. Barthe, of the Chamber of Deputies, several professors of the Paris Faculty, military pharmacists, etc., being present. M. Langrand, as a veteran, made a speech complimenting the Association on its efforts to promote the spirit of social and professional union among future pharmacists and alluding to the fact that this was the first gathering since the "terrible cataclysm" of 1914. The "Pharmacie Française," the Association's monthly periodical, will shortly celebrate its twenty-fifth birthday, in spite of war difficulties and the paper famine. M. Josset has been elected President for 1921, MM. Ossedat and Enault Vice-Presidents, MM. Martin and Monnier secretaries, and Mademoiselle Lévy archivist.

Colonial and Foreign News.

FREE MEDICINES IN RUSSIA.—A decree issued by the Soviet requires that all medicines dispensed upon a medical man's prescription shall be supplied to patients free of charge.

OPIUM IMPORTS.—The "Official Madrid Gazette" recently published a Royal Order according to which importers of opium, morphine, cocaine, ecgonine, and diacetylmorphine, their salts, mixtures, or preparations containing not less than 0.2 per cent. of morphine or 0.1 per cent. of cocaine, ecgonine, or diacetylmorphine desirous of importing these into Spain from Great Britain are required previously to obtain in each case a licence from the general inspector of health. In making application for a licence to import these narcotics from Great Britain the importer is required to undertake the obligation not to export or to sell them to another person for the purpose of exportation, and all supplies received must be intended solely for medicinal or scientific uses within Spain. Wholesalers engaged in supplying drugs to pharmacists who wish to import these narcotics from Great Britain are required to obtain a certificate from the sub-delegate of pharmacy to the effect that the imported narcotic drugs are destined solely for sale as medicinal agents. This Order has been issued to give effect to an arrangement entered into between the British and Spanish Governments regulating the exportation of opium, etc.

PHARMACY IN DIFFERENT COUNTRIES.—Under the title of "Ustroj Aptekarstwa W Polsce" ("The System of Pharmacy in Poland"), M. F. Herod, the editor of the leading Polish pharmaceutical journal, has published a work reviewing the various conditions under which pharmacy is carried out in the different countries. At the present moment the question of a reform of pharmacy in Poland is to the forefront, and two projects are under discussion, one elaborated by the Government, and the other prepared by the Polish Pharmaceutical Society. Poland at present possesses three distinct forms of pharmaceutical legislation—viz., Austrian, Russian, and Prussian. However, in all of these the system of a limited number of pharmacies of the concession type exists. The author rejects both the principle of nationalisation as well as of the free exercise of the profession, as is the case in Great Britain. He proposes as the best system, that of a purely personal concession, which cannot be transferred or sold. In order to abolish the existing privileged pharmacies, he suggests that the Government should buy up these rights, and transform these pharmacies into purely personal concessions. M. Herod further points out that by leasing these pharmacies on the basis of a return of 5 per cent. on the sum paid to the former owner, the State would be able to wipe out the debt incurred within forty-four years. He is also in favour of a more technical and scientific curriculum for pharmacists.

JAVA GOVERNMENT CINCHONA.—Dr. M. G. J. M. Kerbosch, the well-known quinologist and director of the Government cinchona estate in the Preanger Regencies of Java, contributed to "Sluyters' Monthly" recently an interesting illustrated article on the growth and development of the cinchona plantations which he directs. The larger portion of the monograph is devoted to an historical review of the Government plantations, which dates back to about 1855. How the Dutch Government came to undertake cinchona cultivation and how these efforts met with early success is an old story which has been related in the *C. & D.* Of the original trees from the seed of Ledger there still exist some 300 on the Government estate; they are now fifty-five years old. Much credit is due to Moens, who was the first to realise that only high-percentage Ledger trees should be used for propagating purposes, and as the results of his chemical investigations he was able to raise his standards continually. In 1873 he wrote, "From now on for the cultivation of new plants only seeds are used of trees of which the bark contains more than 5 per cent. quinine." Already in 1875 he brought his minimum requirement to $7\frac{1}{2}$ per cent. and in 1877 to 9 to 10 per cent. The well-known quinologist,

J. Eliot Howard, wrote in 1875 in a letter to Moens: "I commend very much the pains you have taken in this respect, and I think you will reap the advantage by keeping considerably ahead of all growers of cinchona." These words of Howard have fully come true, as Java has taken the lead and kept it.

DISPENSING DOCTORS IN SWITZERLAND.—In several Swiss cantons doctors are allowed to dispense medicines for their patients, and in many instances this has caused friction between pharmacists and certain firms anxious to secure dispensing doctors as their customers. The various firms which accept orders from dispensing doctors have now formed an association, under the title of Association of Swiss Suppliers to Doctors, and have published their rules, which apply to fixing the prices for supplies, charges for packages, the conditions of payment and of delivery. Prices are to be based on the latest list issued by B. Siegfried in Zofingen, at least $33\frac{1}{2}$ per cent. being added to list prices. In the case of specialties, the price fixed by manufacturers has to be observed, or where there is no such price a minimum profit of 25 per cent. is to be obtained. For divided powders, tablets, pills, and ointments the following scale of charges has been laid down, exclusive of ingredients:

For powders and tablets:

For less than 100	...	...	3 centimes each
" 100	...	...	2.50 francs
" 500. per 100	...	...	2.25 "
" 1,000	...	...	2.0 "

For making cachets $1\frac{1}{2}$ times these charges are made.

For making pills:

Up to 100	...	...	1.50 francs
" 500. per 100	...	...	1.0 "
" 1,000	...	...	0.80 "

For making ointments:

Up to 50 grams	...	...	0.60 francs
" 300	...	...	1.0 "
" 500	...	...	1.50 "
" 1,000	...	...	2.0 "

For each further 1,000 grams. 1.0 franc.

For making suppositories, bougies:

For 1 to 99, for each	...	...	0.10 franc
" 100 to 499	...	...	0.09 "
" 500 and more, for each	...	...	0.08 "

CHINESE MUSK.—Not long ago a physician sententiously said: "Let us make haste to use iodine as long as it is still capable of healing." Similarly it might be said, "Let us hasten to discuss musk while it is still obtainable," for it is evident that the musk-deer is in danger now of being totally exterminated. It was the explorer Tavernier (says Monsieur G. Charrière, in "La Parfumerie Française") who made this product known to European physicians and perfumers towards the second half of the seventeenth century, when he brought back from Asia some 200 kilograms of musk in pods. The finest musk is obtained from the Thibetan *Moschus moschiferus*, and the hunters are past-masters in the art of sophisticating the ware they offer to buyers; the point is not to establish whether adulteration has taken place, as this is always the case, but the extent of the sophistication, a matter requiring considerable skill on the part of the purchaser, since business is carried out in the dark, a great point being made of the deleterious influence of light on musk. The pods are packed in skins, to which bamboo-poles are attached which serve the purpose of preventing the pods from being lost should the junk or sampan on which they are loaded be wrecked during its journey on the rivers. It takes six weeks to get from Thibet, from Chiambo on the Thibetan-Chinese frontier, to Ta-Chien-Lu, the great centre of the musk trade. At the latter place the first classification takes place by the new purchasers, which is chiefly based upon the origin of the musk, or the reputation of the seller. From thence it is taken to Haukoir, the most important market for musk. In 1890 no less than 25,000 musk pods passed through Ta-Chien-Lu, but the amount exported from China has fallen to 20,000 pods in 1900, and 10,000 in 1910. In view of its scarcity the price has advanced very considerably, and is far in excess of its former value, when musk changed hands for double its weight in silver.

Legal Reports.

Lime-water Case.—At Dublin Police Court, on March 18, Mr. D. M. Watson, Ph.C., 61 South Great George's Street, was summoned in respect of a sale of lime water said to be deficient in lime to the extent of 15.5 per cent. Mr. Gerald Byrne (instructed by the Chemists' Defence Association, Ltd.) appeared for Mr. Watson. After the evidence, which was of a formal character, had been heard, the magistrate dismissed the case with a caution.

"Double Diamond Acid Vinegar."—At Kingston-on-Thames Police Court, on March 23, C. J. Wood, Richmond Road, Kingston, was summoned, under the Sale of Food and Drugs Acts, for having sold vinegar that was 11 per cent. deficient in acetic acid. Mr. Ubsdell, prosecuting, proved the purchase and put in the analyst's certificate. Mr. Ricketts, for the defendant, submitted that the vinegar had been sold in the condition in which it was received from the makers; he produced the invoice, which described it as "Double Diamond Acid Vinegar." After further argument, the Bench ruled that the case was proved, but dismissed the summons on payment of 2*l.* 2*s.* costs.

A Question of Labelling.—At Kingston-on-Thames Police Court, on March 23, Batey & Co., Ltd., Munster Road, London, S.W. 6, were summoned, under the Merchandise Marks Act, 1887, for applying a false trade description to a beverage purporting to be lemon squash and labelled "Batey's Lemon Squash made from the fruit." Mr. E. Hinks, B.Sc., F.I.C., public analyst for Surrey, who was the principal witness for the prosecution, said that the liquid contained phosphoric acid, 0.013 per cent. (equal to 1.1 grain per pint); salicylic acid, 0.006 per cent. (equal to 0.5 grain per pint); sugar, 3.4 per cent.; colouring matter, traces; and water with traces of flavouring matter and carbon dioxide. The colouring matter was not that of lemon, nor could any citric acid be detected. William D. Webb, managing director of the defendant company, giving evidence, said that lemon squash used to be prepared from fresh lemon juice, but it was found that the article would not keep. They now used oil of lemon, and had no intention, in labelling the squash "made from the fruit," to defraud the public. In cross-examination, he agreed that it would be better to leave out those words on the label. The Bench decided to convict, and inflicted a fine of 10*l.* 10*s.*, with 10*l.* 10*s.* costs. Mr. Frampton, counsel for the defence, asked the Bench to state a case if required, and the Bench agreed to do so.

Bankruptcy Report.

Re Thomas Henry Lewis, manufacturing chemist, Moss Lane East, Moss Side, Manchester.—Debtor attended for his public examination at the Manchester Bankruptcy Court, when the Official Receiver stated that there were thirteen executions from May to November, the total amount being for 815*l.* In spite of this debtor took a partner who introduced 600*l.* capital, who complains that he was deceived as to the state of the books. Debtor started business, using his Army gratuity as capital, and made a profit in June of 1,400*l.*, and in November a deficiency of 1,204*l.* The examination was closed.

GERMANS BUY CINCHONA LANDS.—A recent communication from Java states that German interests have obtained 2,000 acres of land on the Padang highlands which will be developed as a cinchona plantation.—"Drug and Chemical Markets."

THE Japanese Government has decreed that all imported bristles and other animal hair to be used in the manufacture of brushes must be disinfected at a national laboratory, newly created for the purpose. Stringent penalties are to be imposed on defaulters.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

SIR JESSE BOOT'S SOCIAL TRUST, LTD. (P.C.).—Capital, 50,000*l.* Objects: To find out the best means of removing or alleviating the evils of poverty, distress, and other social evils, etc. Sir Jesse Boot, Bart., is permanent chairman and governing director. Solicitor: J. W. Briggs, 76 Hounds Gate, Nottingham.

JOHN MACKINTOSH & SONS, LTD.—Capital, 750,000*l.* Objects: To take over the business of manufacturers of "Mackintosh's Toffee," etc., carried on by John Mackintosh, Ltd., at Halifax. The first directors are: H. V. Mackintosh (permanent chairman), J. E. Henderson, J. D. V. Mackintosh, J. W. Greenwood, S. Van Den Bergh, M. S. Myers, and J. H. Guy. R.O.: Albion Mills, Halifax.

SIGRIST & Co., LTD. (P.C.).—Capital, 1,000*l.* Objects: To take over the business carried on at Hanham, Bristol, by G. H. Wiseman, as "Sigrist & Co.," The Pharmacy, Hanham, and to carry on the business of chemists, druggists, drysalters, oil and colour men, etc. The permanent directors are: R. H. Sigrist and G. H. Wiseman, The Pharmacy, Hanham, Bristol. R.O.: The Hanham Pharmacy, High Street, Hanham, Bristol.

H. DAVY'S EXORS., LTD. (P.C.).—Capital, 3,000*l.* Objects: To adopt an agreement between E. J. Davy and J. H. Pickford for the acquisition of the business of chemists and druggists carried on by the executors of the late H. Davy at 19 Bridgegate, Rotherham. The first directors are: E. J. Davy, 2 Florenceville, Parkfield Road, Rotherham, and C. A. Wain, 78 Lister Street, Rotherham. R.O.: 19 Bridgegate, Rotherham.

JOHN W. LEITCH & Co., LTD. (P.C.).—Capital, 200,000*l.* Objects: To take over the business of a chemical manufacturer carried on by J. W. Leitch at Milnsbridge, near Huddersfield, and elsewhere as John W. Leitch & Co., and to carry on the same and the business of manufacturers of dyes, mordants, dyestuffs, drysaltery, paints, varnishes, colours, glycerin, etc. The first directors are: J. W. Leitch and D. J. Leitch, Somerville, Edgerton, Huddersfield.

TAYLORS' DRUG CO., LTD.—The preference dividend at the rate of 6 per cent. per annum for the past half-year, together with a bonus of 1 per cent. for the last financial year, is to be paid on March 31.

BRITISH DYES CORPORATION, LTD.—The report for the year to October last states that the profit amounted to 610,927*l.*, compared with 172,504*l.* The 8 per cent. dividend on the ordinary is maintained, 203,304*l.* being carried forward, compared with 58,826*l.* This conservative distribution is due to the fact that the adverse conditions now being experienced will fall with full effect on the current year. "The decreased demand for dyestuffs during the past few months," state the directors, "has been very marked, and has rendered necessary a considerable curtailment in production." A notable feature in the accounts is the fact that during the two years of its existence the company has written off 593,486*l.* in depreciation. At the annual meeting, to be held on April 1, the shareholders will be asked to approve an arrangement by which Sir Joseph Turner and Dr. Levinstein will cease to be managing director of the corporation. Their successors in the management of the company will probably be Mr. Vernon Clay and Sir William Alexander, both recently appointed directors, together with the chairman (Sir Henry Birchenough).

DONALD CAMPBELL & Co., LTD., importers, St. Mary Axe, London, E.C.—A meeting of the creditors of this company was held on March 22 at Winchester House, Old Broad Street, E.C., Sir William Plender presiding. The chairman stated that the company was registered on September 25, 1919, with an authorised share capital of 500,000*l.*, and it took over the goodwill and certain assets of an existing firm. The assets acquired consisted of shares in allied undertakings 53,509*l.*, stock 150,000*l.*, and goodwill

200,000/., or a total of 403,509/. The purchase price was satisfied by the allotment of fully-paid shares for 366,009/., and 37,500/., in cash. The issued share capital was 466,353/., of which 100,344/., was subscribed for in cash. The audited accounts up to September 30 showed a turnover of more than six million sterling, and a profit, subject to excess profits duty and corporation tax, of 50,790/. The turnover during the past five months was about 930,000/. The liquidation had been brought about by trade depression and a very considerable fall in the value of the produce dealt in. Approximate figures were presented which showed liabilities 450,000/., while the assets comprised shares in allied companies upon which no value had as yet been placed—furniture 1,000/., stock 42,000/., surplus from a fully secured creditor 6,000/., and approximate amount due by debtors 350,000/., to 400,000/. A large part of the stock was pledged to creditors. The outcome of the liquidation, added the chairman, would very largely depend upon the realisation of the jute stocks, which were mostly pledged, valued at about 300,000/. A resolution was passed confirming the voluntary liquidation, with Sir William Plender as liquidator.

DULAC, LTD., soap manufacturers, etc., 2 Aspen Place, Waterloo Street, Hammersmith, London, W.—In pursuance of the provisions of the Companies (Consolidation) Act a meeting of the creditors was held recently at the registered offices of the company, when it was reported that a resolution for voluntary liquidation had been passed and that Mr. Parkin S. Booth, accountant and auditor, of Kimberley House, Holborn Viaduct, E.C., had been appointed as the liquidator. A statement of affairs was presented by Mr. Booth which showed liabilities of 3,759/., 2s. 3d., all of which were due to trade creditors. The assets were estimated to realise 3,028/., 0s. 5d., from which had to be deducted 400/., due on debentures and 132/., 3s. 6d. for preferential claims. The net assets were thus reduced to 2,495/., 16s. 11d., or a deficiency as regarded the unsecured creditors of 1,263/., 5s. 4d. The assets comprised cash at bank and in hand, 26/., 10s. 9d.; stock in trade, 551/., 10s.; machinery and plant, 1,098/., 15s.; fixtures, fittings, and utensils, etc., 217/., 13s. 3d.; office furniture, 44/., 14s. 6d.; book debts, 171/., 8s. 11d.; and boxes, cartons, labels, etc., 1,714/., 16s. 1d., expected to produce 857/., 8s. The issued share capital of the company was 5,890/., and as regarded the contributories there was a deficiency of 7,153/., 5s. 4d. Mr. Booth said that the assets had been valued, and it was estimated that the figures shown would be realised. The company was registered on January 27, 1920, with a nominal capital of 50,000/. The directors of the company were Mr. H. Hesford, who acted as business director; Mr. Paul Villain, technical director; and Mr. B. W. Arnold, who took no active part in the business. When the company was formed 500/., was paid to Mr. Villain in consideration of it having the exclusive right to the use of his formulas and secret processes. They were, however, to remain his property until a sum of 5,000/., had been paid to him by way of dividend on the 2,500 deferred shares he subscribed for. Originally the company had offices in Southwark Street, and between January and June of last year it was engaged in obtaining samples from France of various products and getting out designs. In May 1920 a factory was obtained at Peckham for 1,000/., but subsequently it was found that to adapt the building to the requirements of the company would cost a considerable amount of money, and they eventually decided to sell the premises for a sum of 2,000/. A little later negotiations were entered into for the acquisition of a business known as the Angeliue Chemical Co., which was eventually acquired at a cost of 1,300/. The company then occupied the factory which had been previously used by the Angeliue Chemical Co. The premises were held under an agreement at a rental of 300/., per annum, and a sum of 1,300/., had been expended in connection with extra fittings and additional shafting and machinery. Between September and December orders to the extent of 2,500/., were obtained, but were not executed, as the materials ordered from France did not arrive in time for the Christmas trade. The orders were, therefore, cancelled. The company actually commenced manufacturing their own goods last October, and prior to that date there

was no turnover created. The books of the company showed that the actual turnover between October and the date of the liquidation was 1,207/. He (Mr. Booth) was in negotiation with several intending purchasers, and hoped to be able to effect the sale of the business as a going concern. After a short discussion the creditors decided to confirm the voluntary liquidation of the company with Mr. Booth as liquidator, and an advisory committee was also appointed consisting of the representatives of the Hammersmith Distillery Co., Ltd., T. H. Harris & Sons, Ltd., and the Kingsley Box Co. The following are among the creditors: Burgoyne, Burbidges & Co., Ltd., 22/.; A. Boake, Roberts & Co., Ltd., 48/.; Courtin & Warner, 59/.; Eley Bros., Ltd., 63/.; Hollands Distillery Co., 22/.; Hammersmith Distillery Co., Ltd., 248/.; Johnson & Jorgensen, Ltd., 61/.; Kingsley Box Co., 112/.; R. Leconte & Co., 14/.; Suttley & Silverlock, Ltd., 150/.; and Venesta, Ltd., 45/.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

PARLIAMENT ADJOURNED

for the Easter holidays on March 24 until April 4. The business on April 5 will include the committee stage of the financial resolution of the Key Industries Bill.

PROPRIETARY MEDICINES BILL.

It is announced that Viscount Astor is to retire from his office of Parliamentary Secretary to the Ministry of Health owing to ill-health. The prospects of the re-introduction of the Proprietary Medicines Bill in the House of Lords are less rosy. It is probable now that the Bill will be shelved until the autumn.

ENDING WAR MINISTRIES.

On March 31 three war-time Ministries ceased to exist. These are the Ministry of Food, the Ministry of Shipping, and the Ministry of Munitions. With the first and last, chemists had a good deal to do in connection with restrictions on sugar, fats, and chemicals. The duties of the Ministries are to be undertaken by various Government Departments.

FOREIGN COMMERCIAL TRAVELLERS.

Colonel Sir C. Yate, on March 22, asked the Parliamentary Secretary to the Overseas Trade Department what steps have been taken to put commercial travellers of foreign nations entering the United Kingdom on the same footing as regards the payment of licences, taxes, and fees as British commercial travellers are placed on entering foreign countries.

Sir P. Lloyd-Greame replied that no steps have been taken, or are in contemplation, to impose any special charges on foreign commercial travellers entering this country. It would be impossible to impose the restrictions suggested without denouncing a very large number of treaties which exist between this country and other countries.

PERFUMERY TRADE BOARD.

Mr. J. Jones, on March 23, asked the Minister of Labour whether he has conducted investigations into the perfumery trade with a view of setting up a Trade Board; whether, as the result of these investigations, it has been shown that the wages for adult women are in some firms as low as 16s. per week, while in other firms doing comparable work wages of from 34s. to 45s. are paid; and what action he proposes to take to establish a Trade Board for the industry.

Dr. Macnamara: Preliminary investigations have been carried out into the manufacture of perfumery, and it has been found that wages such as those referred to are paid in certain cases. He was not yet, however, in a position to reach a decision as to the establishment of a Trade Board. Many of the workers are covered by the Soap and Candle Joint Industrial Council.

PROFITEERING ACTS.

In reply to a question in the House of Commons on March 24, Sir P. Lloyd-Greame said that, according to returns which have been received, thirty-one prosecutions have been initiated between September 1, 1920, and February 28, 1921. The expenditure of the Board of Trade (excluding office rent, lighting, and stationery) in administering the Acts during this period was 23,165/. This includes the expenses of the Central Committee and of Appeal Tribunals, but not that of local committees, which he is not able to give as they are defrayed out of the local rates.

Captain Benn asked if it would be correct to say that it has been costing 1,000/. to bring a single prosecution.

Sir P. Lloyd-Greame: That would be a completely inaccurate statement. It would be ignoring entirely all the work done by the Central Committee in the investigation of prices.

POPULARISING VENEREAL DISEASE.

Captain Elliot, on March 23, asked the Minister of Health whether he has at any time sanctioned the provision of public money, either out of the national Exchequer or out of local revenues, for the purposes of the National Council for Combating Venereal Disease, either for the purpose of advertisement or for any other purpose; and, if so, whether he will specify what amount of money has been so provided in each of the financial years affected, and on what purposes the money has been spent.

Dr. Addison replied: The reply to the first part of the question is in the affirmative. In accordance with the recommendation of the Royal Commission on Venereal Diseases, the National Council for Combating Venereal Diseases has been recognised by the Government since 1916 as the authoritative body for the purpose of spreading knowledge and giving advice in regard to the question of venereal diseases in its varied aspects. During the years ended March 31, 1919, and March 31, 1920, grants were made to the National Council from the Exchequer amounting to 13,000/. and 15,000/. respectively, and the grant up to date during the current financial year amounts to 13,750/. These grants have been paid in respect of expenditure incurred by the National Council in connection with a campaign of publicity and education by means of lectures, meetings, exhibitions, and Press advertisements, and by pamphlets, posters, and other literature. The grants for the current financial year and for 1919-20 included a proportionate sum for administrative expenditure. No grants are made direct by local authorities to the National Council, but some of these authorities have made contributions to local branches of the Council in aid of the propaganda and educational measures undertaken by those branches.

OPIUM CULTIVATION.

Sir J. D. Rees, on March 23, asked the Secretary of State for India whether, in view of the fact that there appears to be an extensive recrudescence of the cultivation of the poppy in the provinces of Fukien and Yunnan, and that, as the result of the present disordered state of China, many other provinces are also drifting rapidly back to the state of things existing before the opium treaties, it is proposed to continue the opium policy pursued in India whereby the inhabitants of India suffer higher taxation and the inhabitants of China reap no advantage.

Mr. Montagu replied: It is not proposed to make any change in the opium policy of the Government of India as a result of the recrudescence of poppy cultivation in China. The matter is now governed by the Hague Convention; under that Convention, as China has prohibited the import of opium, India is bound to prevent the export of Indian opium to China.

Sir J. D. Rees: Does the right hon. gentleman realise that the prohibition by China of the import of opium is merely an empty form; whether the action of India is not affected by it; and is it not the case that this is one of the subjects now brought within the all-embracing programme of the League of Nations; does its decision override that of the Hague Convention in this particular matter?

Mr. Montagu: I am given to understand that the matter will be discussed by what is called the Opium Advisory Committee of the League of Nations at the forthcoming Congress in Geneva.

SAFEGUARDING BRITISH INDUSTRIES.

Before the adjournment the Government promised to publish the resolutions upon which the Safeguarding of Industries Bill is to be founded. The resolutions will come before the House of Commons next week. The text of the resolutions is as follows:

Protection of Key Industries.

That for a period of five years from the passing of an Act for giving effect to this resolution there shall be charged on any of the following articles imported into Great Britain or Ireland a Customs duty of an amount equal to 33½ per cent. of the value of the article—that is to say:

(a) Optical glass and optical elements, whether finished or not, microscopes, field and opera glasses, theodolites, sextants, spectrosopes, and other optical instruments.

(b) Beakers, flasks, burettes, measuring cylinders, thermometers, tubing, and other scientific glassware and lamp-blown ware, evaporating dishes, crucibles, combustion boats, and other laboratory porcelain.

(c) Galvanometers, pyrometers, electroscopes, barometers, analytical and other precision balances, and other scientific instruments, gauges, and measuring instruments of precision of the types used in engineering machine shops and viewing rooms, whether for use in such shops or rooms or not.

(d) Wireless valves and similar rectifiers, and vacuum tubes.

(e) Ignition magnetos and permanent magnets.

(f) Arc-lamp carbons.

(g) Hosiery latch needles.

(h) Metallic tungsten, ferro-tungsten, and manufactured products of metallic tungsten and compounds (not including ores or minerals) of thorium, cerium, and other rare earth metals.

(i) All synthetic organic chemicals (other than synthetic organic dyestuffs, colours, and colouring matters imported for use as such, and organic intermediate products imported for their manufacture), analytical reagents, all other fine chemicals and chemicals manufactured by fermentation processes,

including any articles comprised in any list which may from time to time be issued by the Board of Trade for defining the articles which are to be taken as falling under any of the general descriptions set out above.

Prevention of Dumping and Balancing of Exchanges.

There shall be charged on any of the following articles imported into Great Britain or Ireland, in addition to any other duties of Customs chargeable thereon, a Customs duty of an amount equal to 33½ per cent. of the value of the article—that is to say:

Articles of any class or description in respect of which an order by the Board of Trade has been made under any Act of the present session for giving effect to this resolution, if manufactured in whole or in part in any of the countries specified in the order, or deemed to be so manufactured.

Any such order as aforesaid may be made on the ground that articles of the class or description in question are being sold or offered for sale in the United Kingdom:

(a) At prices below the cost of production thereof; or

(b) At prices which, by reason of depreciation in the value in relating to sterling of the currency of the country in which the goods are manufactured, are below the prices at which similar goods can be profitably manufactured in the United Kingdom;

and that by reason thereof employment in any industry in the United Kingdom is being, or is likely to be, seriously affected.

For the purposes of this resolution, "cost of production" in relation to goods of any class or description means the current sterling equivalent of:

(a) The wholesale price at the works charged for goods of the class or description for consumption in the country of manufacture; or

(b) If no such goods are sold for consumption in that country, the price which, having regard to the prices charged for goods as near as may be similar when so sold or when sold for exportation to other countries, would be so charged if the goods were sold in that country.

CHLOROFORM is characterised by the City of London coroner, in his report for the year 1920, as "the most dangerous and deadly of anæsthetics."

Pharmaceutical Society of Cape Province.

At the annual general meeting, held recently in the Society's Room, Darling Street, Cape Town, there were present: The President (Mr. T. J. Hughes) and Messrs. Asher, Froembling, Gardner, Young, Roytowski, Burton, Ross, Hoffman, Blair, Fryde, Hill, Cheetham, Thomas, Mohr, Copeland, and the hon. secretary (J. Sloan); also the following visitors: Messrs. Epstein, Westerman, Cohen, Connolly, Rosenberg, Stusser, Low, Malan, Rabinowitz, and Zuck.

The minutes of the previous general meeting having been passed, the secretary reported as follows:

We have had five general meetings, with an average attendance of 17, and thirteen Council meetings, with an average attendance of 7. During the year we have lost, through death, Mr. J. Rollnick. Six new members have been elected and one associate member. The membership with associates now numbers 110.

Mr. Ross moved, and Mr. Burton seconded, the adoption of the secretary's report, which was carried.

The treasurer's report was then read and adopted. The report showed the financial position of the Society to be satisfactory. Most subscriptions had been paid promptly. The accounts and balance-sheet had been audited by the honorary auditors, Messrs. Bridger and Cheetham, to whom the Society is again indebted.

The President, in his address, dealt mainly with the position of company pharmacy in the Cape Province.

Dr. Froembling, after having given a short historical review of the Society's school since its commencement, continued as follows:

Concerning the happenings of the last twelve months, I have on record the names of no fewer than thirty-four students, who partook of one course or another; of these about eight, so far as I can ascertain, left for England, with the intention of qualifying there. A similar number disappeared out of view to unknown parts, without leaving any traces behind them. I am sorry to say that places of amusement have still a greater power of attraction than Nature, which means a further reduction in the number attending. Most of the regular participants come a considerable distance, sacrificing additional time and incurring extra expenses—a pleasing feature in contrast—an encouragement to continue the trodden path. The incident that examinations are held twice a year has induced me to adjust my lectures accordingly. One term lasts from the middle of November to the middle of May in the following year, the second term from the middle of May to the middle of November, the date of the examination. As rumours have been spread that only botany was taught at our school, I will give you in detail what was provided for last year: First Term.—General botany, microscopy, eleven lectures of two hours each; systematical botany and materia medica, fourteen lectures of two hours each. Parallel with these, twenty-six excursions on holidays and Sundays (at least two hours' duration)! As the excursions supplement in practice what has been propounded theoretically during the previous or following week, the student has the opportunity of receiving in these combined subjects four hours' tuition per week. Chemistry: Lectures with demonstrations for advanced students and candidates, sixteen from January till May (one and a-half to two hours). The laboratory was open during the whole of this period practically every day from 9 A.M. to 12 and 3 to 5 P.M.: some students being in employment coming in even on Sunday morning. Although distinctly opposed to lecturing at night, I am quite prepared to assist occasionally candidates in the evening, no other time being available during the day; so a revision course was given during the last six weeks preceding the examination, including all subjects, even prescription reading and problems. I am sorry to say that in the latter case the knowledge displayed by some students was such that I hardly believe that the stipulated four years were spent behind a dispensing counter. Second Term.—This started with a discordant note. I had been informed that dissatisfied students had formed chemistry classes under the auspices of some association, and that Messrs. Bluett and Hoffman had been appointed lecturers in connection with classes to be held at the University. Considering the vast amount of work entailed in connection with experimental lectures, as well as supervision of analytical work in my laboratory (during the first term over four hundred samples were dis-

tributed, reported upon and discussed), and as I felt pleased to be relieved of some work by younger men possessing more time and energy than myself, I thought it unnecessary and superfluous to continue the same work and parallel classes, and closed my laboratory temporarily for all but candidates. Lectures given during this term were much the same as above—botany, microscopy (ten lectures, twenty hours); systematical botany and materia medica (sixteen lectures, thirty-two hours); parallel with these, twenty-six excursions. During the last few months candidates for the November examination were allowed to make use of the laboratory. The evenings have been again devoted to a general revision of all subjects. Since my last report was issued four candidates who have received more or less of their tuition at our school passed in England and two locally. If nothing untoward happens classes will be continued in the coming year as hitherto, provided sufficient students being willing to attend. To insure better attendance it was suggested that a rule should be introduced to the effect that students not attending regularly should be excluded from classes, as well as their respective masters informed hereof.

The report was followed by a lively discussion, a number of questions re future classes being put and answered apparently to the satisfaction of the members and students present. Mr. Webb moved, and Mr. Thomas seconded, the adoption of the school report, which was carried.

Voting for the new Council then took place, with the result that the following were elected: Messrs. Hughes, Froembling, Sloan, Burton, Gardner, Asher, Hall, Hill, Corrigan, Thomas, Dowling, and Copeland. The secretary reported that there had been no calls made on the Benevolent Fund during the year. The following are the officers for the coming year: President, Mr. Hughes; Vice-Presidents, Mr. Hill and Mr. Corrigan; treasurer, Mr. Burton; secretary, Mr. Asher; Benevolent Fund Committee, the President, secretary, Mr. Cleghorn, and Dr. Froembling.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, April 4.

Society of Chemical Industry (London Section), Rooms of the Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Meeting.

Wednesday, April 6.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

Devon Pharmaceutical and Exeter Pharmacists' Association, Rougemont Hotel, Exeter, at 7 P.M. Annual dinner. Tickets 8s. 6d. each from the Secretaries, Mr. F. Southerden, 100 Fore Street, Exeter, and Mr. A. C. Milton, 265 High Street, Exeter.

Ipswich and Suffolk Chemists' Association, Grand Hotel, Ipswich, at 7 P.M. Inaugural dinner. Tickets (10s. 6d. each) from the Secretary, Mr. J. A. Symonds, 16 Upper Brook Street, Ipswich. Afternoon meeting for employer pharmacists at 4 P.M. Address by Mr. Mallinson.

Ucol Federation (Birmingham Branch), Imperial Hotel, Temple Street, at 3 P.M. Annual meeting.

Birmingham Pharmaceutical Association, Imperial Hotel, at 8.30 P.M. Lantern lecture by Mr. L. Richardson on "Highways and Byways of Gloucestershire."

Thursday, April 7.

Chemical Society, Institute of Mechanical Engineers, Storey's Gate, Westminster, S.W. 1, at 8 P.M. Dr. F. W. Aston on "Mass Spectra and Atomic Weights."

North London Pharmaceutical Association, Café Monaco, Piccadilly Circus, London, W., at 6.30 P.M. Annual dinner. Tickets 12s. 6d. each from the Secretary.

Scottish Pharmaceutical Federation (Edinburgh Branch), Gook Hall, Room No. 11, 5 St. Andrew Square, at 8 P.M. Mr. W. S. Brown, C.A., on "Income Tax and the Profit and Loss Account."

Saturday, April 9.

Royal Institution of Great Britain, Alhmarle Street, Piccadilly, London, W. 1, at 3 P.M. Dr. H. H. Dale, F.R.S., on "Poisons and Antidotes" (Lecture 1).

THE (LONDON) WESTERN PHARMACISTS' ASSOCIATION.—The final social function of the session will be held at Pinoli's Restaurant, Wardour Street, London, W., on April 14. Reception by the President, Mr. H. S. Watson, at 6.30 P.M., to be followed by supper and whist-drive. Tickets (7s. 6d. each) from the Secretaries and members of the Committee. Entire proceeds to the Benevolent Fund of the Pharmaceutical Society.

Retail Pharmacists' Union.

Executive Committee.

The following is the result of the Executive Committee election. The names in italics are those of the unsuccessful candidates:

SECTION 1 (METROPOLITAN).		SECTION 4 (NORTH-EASTERN).	
Melhuish, A. R.	231	Gilleghan, Herbert ...	221
Keith, A. R.	267	Jackson, J. G.	192
Wolff, Hugo	195	Walshaw, R. C.	129
<i>Neathercoat, E. T.</i>	<i>182</i>	<i>Fleming, T. H.</i>	<i>124</i>
Atkins, E. A.	176	<i>Forster, William</i>	<i>92</i>
Goode, C. E. A.	61	<i>Nimmo, William</i>	<i>83</i>
SECTION 2 (WESTERN).		<i>Richardson, Arthur ...</i>	<i>69</i>
Lloyd, H. O.	257	<i>Hawkins, Philip</i>	<i>65</i>
Joseph, Leopold	222		
Davis, Charles	213	SECTION 5 (NORTH-WESTERN).	
<i>Pont, D. G.</i>	<i>164</i>	Deakin, J. W.	294
<i>Francis, J. B.</i>	<i>155</i>	Nidd, J. H.	272
<i>Adams, J. W.</i>	<i>80</i>	Hardy, Thomas	160
<i>Barnes, A. S.</i>	<i>28</i>	<i>Hindle, Fred</i>	<i>158</i>
<i>Biggs, F. W.</i>	<i>19</i>	<i>West, R. H.</i>	<i>134</i>
SECTION 3 (SOUTHERN).			
Matthews, H. E.	310	SECTION 6 (CENTRAL).	
French, J. E.	299	Young, A. E.	257
Martin, H. J.	203	Ridyard, C. W.	244
<i>Brown, H. C.</i>	<i>91</i>	Hague, John	224
<i>Jones, E. A.</i>	<i>91</i>	<i>Body, S. F.</i>	<i>163</i>
<i>Yates, C. G.</i>	<i>74</i>	<i>Robinson, Percy</i>	<i>144</i>
<i>Frost, W. T.</i>	<i>42</i>		
<i>Rock, M. C.</i>	<i>41</i>		

Voting Papers

	Returned	Out of Order, etc.
Section 1	405	13
Section 2	387	7
Section 3	452	9
Section 4	407	24
Section 5	363	21
Section 6	427	39

The non-elected members of the Committee are Mr. J. G. Atkinson, Dr. A. J. Barnes, Mr. R. F. Clarke, Mr. W. L. Currie, Mr. J. Keall, Mr. J. Milner, Mr. S. N. Pickard, and Mr. P. F. Rowsell.

Manchester.—The Manchester, Salford and District branch of the Retail Pharmacists' Union held its first meeting on March 16, Mr. A. Hershberg in the chair. The chairman dealt with the organisation of the R.P.U. and explained a number of points. Every employer-pharmacist should be a member of the R.P.U. They had done very well so far, but there were plenty to be enrolled yet. He paid a tribute to the work done by the Local Associations Executive representatives, Messrs. Deakin, Nidd, and Hardy, and asked for support for these three gentlemen at the forthcoming election. This was agreed to and carried unanimously. Mr. Hindle and Mr. West were also mentioned as candidates for Section 5 (North-Western Division). Mr. J. H. Nidd then outlined the multitudinous duties performed by the Local Associations Executive during the past twelve months. The chairman thanked him for the splendid work he (Mr. Nidd) had done, and hoped Mr. Nidd would be elected again to carry on the good work.

THE HUNGARIAN GOVERNMENT has decided that brandy and all beverages the name of which implies a high content of alcohol must contain not less than 50 per cent. of pure ethyl alcohol. Manufacturers of spirits with a lower content of alcohol are given a period of thirty days within which to withdraw these from the market, otherwise they will be confiscated.

PHARMACY IN CZECHO-SLOVAKIA.—The Czecho-Slovak Government has ordered the local authorities to inquire into the nationality of all owners, managers, and lessees of pharmacies in the new Republic. Those pharmacists to whom the Czecho-Slovak right of citizenship is refused, or who do not apply for Czecho-Slovak nationality immediately, are not to be permitted to assume a responsible position in any public pharmacy, and are debarred from either owning or managing a business in the country.

Personalities.

MR. G. H. MARSDEN, chemist and druggist, Hodnet, has been elected a warden of the parish church.

MR. PETER PHILLIPS BEDSON, M.A., D.Sc., F.I.C., professor of chemistry at Armstrong College, Newcastle-on-Tyne, since 1882, is shortly to retire.

MR. G. I. AKEROYD, chemist and druggist (Boots Pure Drug Co., Ltd.), sailed for New York per s.s. *Mauretania* on March 26 on a business trip.

MR. G. MIDDLETON, chemist and druggist, has been appointed to represent Allen & Hanburys, Ltd., in the Lancashire district, as successor to the late Mr. H. Masters.

A MOVEMENT is on foot to form a Masonic lodge among pharmacists and the allied professions. Information can be obtained from Mr. John Keall, 68 West Hill, Wandsworth, London, S.W. 18.

CAPTAIN ALBERT LARKING, secretary of the Early Closing Association, has just completed thirty-eight years' service with the Association. During his secretaryship the income of the Association has increased from 1,500*l.* (in 1913) to 5,700*l.*

Two members of the staff of Boots, Ltd., at the West Street, Blackpool, branch, have been successful in a photographic competition open to all the branches, the first prize being won by Mr. A. F. Wilson and the third prize by Mr. R. B. Turton.

MR. HERBERT SKINNER, Ph.C., member of the Council of the Pharmaceutical Society, has retired from the presidency of the Drug Union. On the occasion of his farewell at the annual Conference on Easter Monday Mr. Skinner was presented with a gold wrist-watch with expanding bracelet as a token of the esteem with which he is held. Mr. Skinner, whose term of office thus concludes, has worked hard to ensure the success of the assistants' movement. He represented the Union at the various wage conferences with the Fine Chemical Manufacturers' Association.

Births.

CAWTHORNE.—At Swinton, Manchester, on March 24, the wife of R. E. Cawthorne, of a son.

COTTEE.—At 75 Derby Road, Long Eaton, on March 25, the wife of H. R. Cottee, chemist and druggist, of a daughter.

Marriages.

REDMOND—MAW.—At Westminster Cathedral, on March 30, by the Very Rev. Monsignor Canon Howlett, D.D., Captain Alexander de Raymond Stennett Redmond, youngest son of Dr. C. S. Redmond, Popefield, Ballylinan, Queen's County, to Sheila Emily Maw, only daughter of Dr. H. Trentham Maw (S. Maw, Son & Sons, Ltd.), "The Old House," Westcott, Surrey.

SMITH—BOOTH.—At Bradford, on March 24, Arthur W. Smith, Thornton, to Elsie A. Booth, youngest daughter of Mr. J. J. Booth (Booth & Co., wholesale druggists, Idle).

WHITE—BURNBY.—At Chiswick, London, W. 4, on March 19, Edward Alston White to Doris Gwendolyn, daughter of Mr. J. J. Burnby, chemist and druggist, 98 Lisson Grove, N.W. 1.

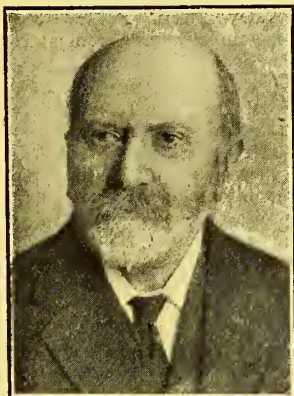
Diamond Wedding.

WILLIAMSON—READ.—At St. Augustine's Church, Liverpool, on April 2, 1861, by the Rev. H. Owen, M.A., William Henry Williamson, chemist and druggist, son of Mr. Williamson, Rochdale, to Emily Woodward, daughter of Mr. Read, Liverpool. Present address: Ashington Wilmslow.

Deaths.

BAILEY.—At Lyndwood, Whitehorse Street, Hereford, on March 15, Mr. James Bailey, for forty years with Chave & Jackson, Ltd., chemists, Broad Street, aged sixty-nine.

BELL.—In reference to the death of the late Mr. J. H. Bell, J.P., retired chemist and druggist, Stapleford, recorded in our last week's issue (p. 75), a correspondent writes: The business career of the late Mr. Bell, of Stapleford, as outlined in your obituary notice, is a sufficient answer to those who contend that English pharmacy no longer offers any inducement to an enterprising man, or is, at best, only useful as a stepping-stone to some higher calling. I gather that Mr. Bell was about thirty-six years of age when he relinquished farming and entered the drug-trade as a learner and virtual apprentice. Three years and three months afterwards he was a qualified chemist and druggist (proving that the examinations are not a very serious bar); he was in business entirely on his own account for twenty-three years only, during which time he played a prominent part in public affairs, enjoying evidently the confidence and respect of his neighbours; and he was able to retire, we may presume, with a comfortable income, while still young enough to have ten years of useful and pleasant life before him. It seems to me that only a very greedy man would ask more than this from any business.



MR. J. H. BELL, J.P.

BENGER.—At The Grange, Knutsford, on March 26, Sophia, widow of the late Mr. Frederick Baden Benger, F.I.C., Ph.C., aged eighty.

BENNISON.—At 2 Shawfield Street, Chelsea, London, S.W. 3, on March 27, Violet, wife of Mr. William Bennison, Ph.C., aged twenty-three.

HENDERSON.—At 16 Northbrook Road, Ilford, on March 18, Mr. Christopher Henderson, chemist and druggist, aged seventy-six.

HOLLAND.—In London, on March 19, the Rev. M. Holland, F.L.S., Congregational minister, botanist, and author, aged eighty, father of Mr. F. W. Crossley-Holland, F.C.S., D.C.L., barrister-at-law and pharmacist.

MARTIN.—Recently, Mr. Henry Stephen Martin, chemist and druggist (Henry S. Martin, Ltd., chemists, East Grinstead). Mr. Martin, who qualified in 1875, was in business at East Grinstead for forty years.

PARKE.—At 9 Bridge Street, Banbridge, co. Down, on March 23, Mr. John Pringle Parke, Ph.C., third son of the late Mr. William Parke, J.P., Clones. Mr. Parke passed the Licence examination in 1892, and carried on a pharmacy at Lurgan for a few years before removing to Banbridge, where he developed an extensive connection. A brother of Mr. J. C. Parke, the well-known lawn-tennis champion, he was prominent in local sports and pastimes. Mr. Parke, who had been in failing health of late, leaves a wife and family.

PRICE.—At Green Mount, Cobham, Surrey, on March 28, Mr. Henry Wilson Price, J.P. (formerly of Price, Hickman & Co., produce brokers, 4 Mincing Lane, E.C.), aged eighty-one years. In 1866 Mr. Price joined the firm of Price, Gifford & Co., now Price, Hickman & Co., retiring in 1905. He was one of the founders and a member of the original committee of the General Produce Brokers' Association in 1876 and President in 1882.

SHACKLADY.—At "Idlesse," 26 Lyndhurst Road, Wallasey, on March 28, Mr. James Shacklady, formerly secretary of Evans Sons Lescher & Webb, Ltd., aged sixty-two. Mr. Shacklady was closely identified for a long period with Evans Sons Lescher & Webb, Ltd., and the predecessors of the company. Entering the service of Evans Sons & Co. as a young man, he quickly made a position for himself by his energy and ability. His commercial career was interrupted for a time by theological studies, but he subsequently returned to Hanover Street, Liverpool, becoming chief accountant and office manager to the firm. On the incorporation of Evans Sons & Co., Liverpool, and Evans Lescher & Webb, London, into a company, in 1902, Mr. Shacklady was appointed secretary, and carried out his new duties with signal success. He was a Fellow of the Chartered Institute of Secretaries and an active member of its Liverpool branch, of which he was a Vice-President. For some time Mr. Shacklady also filled the position of secretary of the Liverpool Chemists' Association. As a member of the Liverpool Sunday Society, he was active in the movement to secure the opening of the libraries, art gallery, and museums on Sunday. A breakdown in health some four years ago necessitated Mr. Shacklady's retirement from business, and the opportunity was taken, both by the directors and the staff, to mark their appreciation of his services. A man of strongly marked personality and great ability, Mr. Shacklady had a wide circle of friends in Liverpool and the district, where his demise is greatly regretted.

SLADE.—At 36 Bessborough Road, Harrow, on March 17, Mr. John Slade, chemist and druggist, aged seventy-eight.

SMITH.—Recently, Mr. James Smith, retired wholesale druggist, late of Queen's Square, Morecambe, aged seventy-seven.

WESTMACOTT.—At Pen-y-Dref, Rhosneigr, on March 17, suddenly, Mr. George Hibbert Westmacott, chemist and druggist, aged eighty-one. Mr. Westmacott was the son of the late Mr. G. B. Westmacott, who founded a retail chemist's business in Market Street, Manchester, in partnership with a Mr. Ingham, in 1837. The partnership was subsequently dissolved, and Mr. G. B. Westmacott, in 1855, took his son into partnership. Mr. G. H. Westmacott had already had an excellent training. After being educated at Manchester Grammar School and in Paris, he went to Dinneford & Co., New Bond Street, London, W., of which firm the late Mr. John Carteighe was the senior partner. Three years after Mr. Westmacott had joined his father in Manchester, the business was removed from No. 4 to No. 17 Market Street. In due course he, in turn, took his son, Mr. G. L. Westmacott, Ph.C., into partnership after the latter had passed the Major examination. Mr. Westmacott belonged to a family of artistic accomplishment; he himself was a well-known amateur landscape painter, and exhibited frequently. He ceased to take an active part in his business ten years ago, but remained a member of the Manchester Pharmaceutical Association till recently. He is survived by four sons and a daughter. The funeral took place at Brooklands Cemetery, Sale, on March 22; the Association was represented by Mr. John Cleworth (President), Mr. T. Miller (secretary), and Mr. W. Lane (James Woolley, Sons & Co., Ltd.).

WYLLIE.—In the Longmore Hospital, Edinburgh, on March 15, after a long illness, Mr. Harry Boak Wyllie, chemist and druggist, aged fifty-one. Mr. Wyllie served his apprenticeship with Mr. John Peebles, chemist and druggist, Kirkcaldy. After a few years' experience in India, he returned to Scotland and purchased the business of the late Mr. A. I. McCallum, 19 Grassmarket, Edinburgh. By a sad coincidence, Mr. Wyllie and Mr. McCallum died on the same day.

JAVA CINCHONA FOR JAPAN.—After Priok, Cheribon is the most important harbour in the Dutch East Indies for the export of cinchona bark to Japan, the amounts exported being 259, 300, and 409 tons, in 1918, 1919, and 1920 respectively. The bark exported was grown on the Sadaréhé plantation at Madjalengka. The Preanger cinchona plantations exported from Tandjong Prior during the past three years 1,601, 4,175, and 3,007 tons of bark in each year.

Trade Notes.

SULPHUR TABLETS.—Ernest Jackson & Co., Ltd., Crediton, make, in our advertising pages, a special offer of compressed sulphur tablets.

APENTA WATER is again being offered by the Apollinaris Co., Ltd., 4 Stratford Place, London, W.1. The retail prices are 1s., 2s., and 2s. 6d.

REGNAS AS-NU.—Sangers, 258 Euston Road, London, N.W. 1, refer to the new straw-hat cleaner which they manufacture. The demand for this article is greatest during April and May and chemists should be ready for this.

MILTON PRICES.—On and after April 4 the retail prices of Milton disinfectant will be 1s. 6d. and 2s. 6d. The trade terms are given in the announcement of the Milton Manufacturing Co., Ltd., 125 Bunhill Row, London, E.C. 1.

OINTMENT-BOXES.—Hugh Stevenson & Sons, Ltd., Summerstown Works, London, S.W. 17, manufacturers of Corriganza seamless ointment-boxes, are now making pill-boxes on the same principle. The price of the ointment-boxes has been reduced.

RÉCAMIER PRODUCTS CO., LTD., 4 St. James's Street, London, S.W. 1, have commenced a general advertising campaign of the Crème Récamier, Poudre Récamier, Savon Récamier, and Crème du Harem. Particulars of a special offer to chemists can be had on application to the company.

VICTRA WATERWINGS.—The approach of the sea-bathing season will bring with it demands for water-wings and bathing-caps. Wm. Edwards & Sons, druggists' sundriesmen, 157 Queen Victoria Street, London, E.C. 4, make, in their advertisement, a special offer of British-made water-wings.

TONIC HERB-BEER TABLETS.—C. R. Harker, Staggs & Morgan, Ltd., Devon Wharf, Emmott Street, Mile End, London, E. 1, call attention to their tonic herb-beer tablets as a spring line. The tablets are packed in tins of twenty-five, one tablet being sufficient to produce a tumbler of non-alcoholic beer.

"G. O." LEMONADE.—The Greenwich Lemonade Co. (proprietor, Mr. J. Milner, chemist and druggist), 11 John Penn Street, London, S.E. 13, call attention in their advertisement in this issue to "G. O." Lemonade, which is put up in tins and packets. The seasonal trade has started earlier this year, we are informed.

LILY-OF-THE-VALLEY PERFUME.—The popularity of Selfridge's lily-of-the-valley perfume has induced Messrs. Selfridge's wholesale department, Irongate Wharf Road, London, W. 2, to offer it to the trade on liberal terms. The prices of this perfume and other toilet specialities are given in the company's advertisement in this issue.

OPTICAL SUPPLEMENT.—Raphaels, Ltd., manufacturing opticians, Hatton Garden, London, E.C. 1, have issued an optical supplement to their general catalogue. The supplement, which will be sent on application, illustrates and describes new lines in reading-glasses, magnifiers, microscopes, window attractions, binoculars, barometers, etc.

EVANS' YEARLY CATALOGUE.—The 1921 issue of the yearly catalogue of Evans Sons Leasher & Webb, Ltd., London and Liverpool, is a bulky volume with an attractive cover. It is divided into sections dealing with drugs, sundries, and patents, each being complete guides to the articles dealt with. The chemists who have not received a copy should write for one.

SERRAVALLO'S TONIC.—Mr. J. Serravallo, Trieste-Barcola, informs us that his tonic wine is obtainable from Wilcox, Jozeau & Co., 49 Haymarket, London, S.W., who are the wholesale agents for the United Kingdom. The medicaments are cinchona and iron, an exceptionally palatable product being obtained, much employed as a restorative in debilitated conditions.

SWISS TRADE EXHIBITION.—The fifth annual Swiss Trade Exhibition is to be held at Basle from April 16 to 26. Information can be had from the Commercial

Division of the Swiss Legation, 32 Queen Anne Street, London, W. 1, or the Swiss Bank Corporation, 43 Lothbury, E.C. If sufficient applications are received, the Swiss Federal Railways will make arrangements for a party to leave London on April 19 for a visit to the exhibition.

THE NEW FACTORY of Scott & Turner, Ltd., manufacturers and proprietors of Andrews' Liver Salt, Killingworth Place, Gallowgate, Newcastle-on-Tyne, is the last thing in efficiency. The tins, made on the second storey, are conveyed by endless belts to the higher floors, where they are automatically filled. They are then taken to a lower floor, where the lids are stamped on. From start to finish "Andrews'" is never touched by hand.

CIRENGOL, the garden insecticide, is again on sale. Thos. Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, E.C. 4, in reintroducing this greenfly remedy on the cessation of war restrictions, have taken the opportunity of improving the packing. There is no doubt of the popularity of Cirengol among gardeners, and chemists should see that the public demands are satisfied at the pharmacy. Cirengol sells at 9d. per tube (half a dozen being attached to a card), and to assist the sales dealers can be supplied with attractive window-bills.

Business Changes.

MR. ARTHUR EVANS, chemist and druggist, Mold, has removed from Wrexham Street to Mitcham House, High Street.

MR. W. J. FISK, chemist and druggist, 16 Bridge Street, Southampton, has acquired the business of J. Johns & Son, 186 Above Bar and 184 High Street. The latter has been closed, and the stock transferred to Mr. Fisk's Bridge Street shop. Mr. Fisk has also obtained the transfer of the wine and spirit off-licence attached to the business, and has been granted a wine off-licence at 16 Bridge Street, subject to selling medicated wines only.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

S/303. Blew's shaving-soap	S/233. Non-inflammable celluloid shaving-stick holders
B/295. Bedford bed-pan	

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Deodar spraying-fluid, W/263	Baume Duret, A/263
Testogan, B/295	Zopla plaster, R/233
Oenylsol, M/303	Schering's Atophan tablets, L/233
Rodagen, W/295	Carmarole compound, L/233
Cyllin disinfectant, M/243	
Moh disinfectant fluid, M/243	

THE olive oil crop in French North Africa is estimated as follows: Tunis, 70,000 tons; Algeria, 15,000 tons; Morocco, 12,000 tons. About 100 new oil mills have recently been started in Tunis.—"Times Trade Supplement."

U.S.P. IN CHINA.—American drug and chemical merchants in China are endeavouring to bring about the standardisation in China of the United States Pharmacopeia. Many years ago German manufacturers succeeded in inducing the Japanese to adopt the German Pharmacopeia, with the result that the German chemicals and drugs almost monopolised the Japanese market. The Pekin representative of the Department of Commerce believes that if the Chinese could be induced to recognise the United States Pharmacopeia it would be a big step in the development of the American chemical and drug trade in that country.

Observations and Reflections.

By Xrayser II.

Neither the Constitution

of the Departmental Committee on the Dangerous Drugs Act Draft Regulations nor the terms of reference prescribed for it gives us much assurance of relief from that quarter, and it is more than likely that the battle will still have to be fought in the House of Commons. The Home Office is apparently as hostile as ever, and its defeat on the preliminary question will only make it more stiff-necked in opposition to its critics in and out of the House. In these circumstances it would be madness to relax our efforts to influence members, and fortunately time and the folly of our opponents are putting new weapons into our hands. The suggestion you pillory to "denaturise" (barbarous word) tinct. opii is perhaps the most extraordinary attempt to wriggle out of an impossible position that any responsible body ever made, but there is another point connected with the agricultural interest in the Regulations that is more important, if only because it is less obviously absurd. It seems to have been argued that the farmers' necessities would be met by giving veterinary surgeons the right to prescribe laudanum; but this, after all, is only to repeat the injustice of making the public generally dependent upon a doctor's prescription for the supply of their wants. And the supposition that country vets. are, as a class, more fit to be trusted with the supply of these drugs than chemists is ridiculous.

Sir James Dobbie

was undoubtedly right in saying that only when science is pursued for its own sake, on "a strictly scientific basis," are the highest or even the most useful results attained, but he was, I venture to think, a little unfair to the old alchemists. Their "gropings" after the philosopher's stone may not have produced any but desultory results, but very important results they did produce, and in a very real sense modern chemistry may be said to have grown out of their researches. Brande is equally unfair when he says that virtually all chemistry owes to the alchemists is the apparatus they invented, but in attempted justification of this statement he has to divide alchemists into two classes—those who aimed only at the transmutation of the baser metals into gold, and those who, in addition to this, made researches into the constitution of matter in a more disinterested spirit, and to whom we owe many very valuable discoveries. This is manifestly unjust, for these men were as much "alchemists" as the others. The very first alchemist of whom we have any authentic information—Geber—is credited with the discovery of saltpetre, and one has only to recall such names as Roger Bacon, Rhasis, Avicenna, Lully, Valentine, Paracelsus, Van Helmont, Helvetius (alchemists all), to which more modern ones might be added, in proof of our debt to the seekers after the universal tincture. It is true that after Van Helmont there was a distinct split between what Brande calls alchemists proper—who rapidly degenerated into mere charlatans—and the more liberal school of observers and researchers to whom the rise of modern chemistry is due, but these, none the less, took their rise from Geber and his first followers.

The Distinction

made in Austrian proprietary medicine law between wholesale and "house" specialities is a very reasonable one, and it would be well if, with certain modifications, it were adopted here. It is not reasonable to subject every little local remedy for which the proprietor claims the exclusive right of production to the same requirements as the universally advertised preparations of millionaire firms, for the local proprietor is neither so likely to abuse his privilege nor can he so well afford to pay for it. The strict, indiscriminating way in which these requirements are enforced with us is almost prohibitive in small businesses, indeed as regards many things which the chemist might most conveniently to himself and his customers put up for sale it is quite so. There seems, indeed, no reason for the Austrian requirement that

these "house specialities" shall not be sent by post. It must often happen that former users of them wish this done, and why not? The attention of our legislative authorities might well be called to these points before the Proprietary Medicines Bill is again introduced, if ever.

I Did not Suppose

my view of the Manchester novelty in window-dressing would be generally accepted, but I did hope it would be understood. "An Irish Apothecary" evidently does not understand it, though perhaps my last week's note on the subject may enlighten him a little. Let me repeat that what I dislike is "the exploitation of professional skill for business purposes." There is nothing of this in the exhibition of poppyheads, sarsaparilla, or carrageen moss in one's window (my only objection to which would be its futility), nor can it be compared, except for rhetorical purposes, with the display of carboys and specie jars. And it is not true that in the Manchester window, as described, only the tools of the craft were shown. To that, of course, there could be no objection, but a good deal more was shown and still more implied. The display, in short, whether so meant or not, was virtually a declaration that as dispensers of medicine we are not as other men are—as non-qualified storekeepers, for instance. I venture to say that it would be so read by most of those to whom it was addressed, and I do not like the implication. I presume that apothecaries in Ireland, as in England, are to all intents and purposes doctors. Do they advertise their skill in this way? Here, I fancy, to do so would be regarded as "infamous conduct," and if not positive charlatanism yet "smacking" of its methods. While we claim professional status we should abstain so far as possible from non-professional conduct, that is all.

The Reply

of the "Glaxo" manufacturers in the March "Service Bulletin" to the complaints of chemists of the supply of the article through welfare centres, if not thoroughly convincing, is still plausible, and the question is admittedly a difficult one; but to the complaint of price-cutting by grocers, etc., they make no answer worth anything. First, the editor denies that such cutting is "rapidly becoming recognised," and then rides off with the excuse that "Glaxo" is not protected because of "a partial breakdown of the Proprietary Articles Trade Association scheme," for which no reason at all is given. But the most curious deliverance on this subject of price-cutting is in an article by Mr. H. Wright. Mr. Wright admits that cutting "is rife" in his neighbourhood, but pleads that it does not harm chemists because it is to them that "the mother flies" when her baby is out of sorts, with questions the milkman and the grocer cannot answer, and she naturally, therefore, gets her "Glaxo" from him. Surely a more naive remark was never made. This is the very ground of the chemists' complaints—that they who have done so much to popularise the article now receive no consideration from the proprietors, but are left to labour under these grievous disadvantages.

ALSATIAN POTASH.—An official report states that, given suitable labour, the seventeen pits of the potash mines in the Mulhouse basin can produce 4,000,000 tons of sylvinite and 700,000 tons of pure potash in four years.

DENTAL BENEFIT.—A letter in the "National Health Insurance Gazette" suggests that the form in which additional benefits can be granted by approved societies under the National Insurance Acts is one which requires careful consideration. The opinion is given that, provided the approved societies could set in operation a national scheme for dental treatment for its members, this would be one of the best methods of utilising the additional funds, decayed or defective teeth being responsible for much sickness and incapacity, and, consequently, for many claims for benefit. The payment of additional cash benefits is open to several objections, one being that the larger amount obtained by the insured person tends to delay "declaring-off."

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3/6, by post 3/10.

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Index Folio 460

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Editorial Articles.

James Gregory, M.D.

IN Edinburgh, on April 2, 1821, died James Gregory, M.D., whose name is associated by long usage with the pulvis rhei compositus of the British Pharmacopœia. The number of men who have attained lasting fame by means of a medicinal powder is very small. Dr. Dover and Dr. James are "still running," but their contemporary Moore enjoys only a second-hand immortality in the pages of the poet Pope. James Gregory was born in Aberdeen in 1753, and was the son of John Gregory, professor of medicine in the University of Edinburgh, and of Elizabeth his wife—a peer's daughter gifted, it is said, with beauty, wit, and fortune. Several of his ancestors had achieved distinction, his grandfather, for instance, having been professor of medicine at Aberdeen University. His education began in Aberdeen, and was continued in Edinburgh, Oxford, and London. Shortly after succeeding his father at Edinburgh in 1776, he commenced the issue of his "Conspectus Medicinæ Theoreticæ," which ran into several editions and numerous translations. The medical professorate of the University at that time included Black the chemist and Hope the botanist; and Gregory, whom Sir Robert Christison afterwards described as the most captivating lecturer he had ever heard, was not the least influential of this distinguished group. Later in life he had a large private practice, his income for the year 1818 being put down at 2,723*l.*, in addition to an amount of 1,364*l.* derived from his office as professor. He was President of the Royal College of Physicians of Edinburgh, physician to George III. and George IV., and a friend of the poet Burns, who humorously professed to stand in awe of him. Gregory was, in fact, a formidable personage. Not long after he assumed his duties at Edinburgh University he engaged in a dispute which culminated in his thrashing a Dr. Hamilton and being fined 100*l.* and costs in court. In 1800 he began a successful attack on the Royal Infirmary, for allowing physicians and surgeons to attend patients for only a month at a time. His most prolonged controversy, which has left its mark in miscellaneous literature, was waged with the Edinburgh College of Physicians. In 1804 a committee was appointed to revise the laws of the College; and among the proposals made was a fresh interpretation of an old by-law that forbade the opening of apothecaries' shops or the practice of pharmacy—the expressions were synonymous—by Fellows or Licentiates. Gregory declared that the proposals, which were in the direction of relaxation of the restriction, were "immoral and base," and that attempts were being made to fill physicians' pockets "by arts that would disgrace an advertising or a circumforaneous mountebank." The bitterness of the struggle, for the official heads, appeared to consist in the fact that Gregory chose to let the public know his version of the matter; and eventually, on May 13, 1809, he was suspended from his privileges by eight votes to two. His personal popularity, however, was considerable. In Wootton's "Chronicles of Pharmacy" (II., 138) there is

a facsimile of one of his prescriptions for a compound rhubarb powder, written in a clear, bold hand. It is said that he varied the proportions of the ingredients; if so, the fact may account for the difference between the formula in the Edinburgh Pharmacopœia and that in the Dublin Pharmacopœia. The respective proportions of magnesia, rhubarb, and ginger in the former were 8-2-1; in the latter, 6-2-1. Gregory's powder never found its way into the London Pharmacopœia, but was adopted, in the Dublin formula, in the first British Pharmacopœia. The question of its miscibility with water was investigated by Mr. William Gilmour and Dr. Inglis Clark in 1879-81. The question of its ready acceptance in the nurseries of the United Kingdom has never been settled.

The Functions of the Merchant.

THE attitude of Government Departments concerned with trade clearly reflects the view that the import and export merchant is, if not an undesirable quantity, at least unnecessary in the commercial machinery of this country. The functions of a merchant are not evident to the official mind, which condemns him in one word—"middleman"—the man who serves no useful purpose, but, on the other hand, increases prices to the consumer. As a result of this ingrained and purely academic opinion, the merchant to-day is in danger of being squeezed out of business. His interests are regarded by Board of Trade officials as merely personal, and worthy of little consideration. That seems to be the opinion of State bureaucrats when one reflects on the lack of consideration given to merchants' interests in Government restrictions on trade, as was the case in the lately abandoned anti-dumping restrictions and in the present Dyestuffs (Import Regulation) Act. It was very kind of the Parliamentary Secretary to the Board of Trade to say that "these merchants perform an invaluable function which no one else can perform." Then why has this same official refused to accede to the repeated requests of merchants for representation on the Dyestuffs Advisory Licensing Committee, a Committee which, he recently stated in the House of Commons, "was thoroughly representative of the trade"? An explanation of his action in this matter would, we should think, tax to the utmost the ingenuity of the most expert political juggler, and is one more warning not to place much reliance on political "utterances of convenience." How many of these Government officials have had actual experience in the commercial world? It would probably be an education to them to spend a few weeks in a merchant's office, where they would find that his business is that of a "specialist" in some particular area of the world. He trades with a country with which he is personally acquainted, and it is this intimate knowledge of what is required in any particular country that strengthens our export trade. They would find that the merchant must, in order to do business, take a certain amount of financial risk which many manufacturers are either unable or unwilling to take. They would see the merchant quoting c.i.f. terms and booking the order, and manufacturers, in all probability, quoting "ex works" and losing the business. They would find the merchant out to adapt himself to the exact requirements of his customer, and to study him in every way; to deliver in the smallest quantities as well as the largest. Foreign importers almost invariably insist on having quotations for the delivery of the goods on their

own doorstep. This is an everyday matter for the merchant, whereas many manufacturers have not the same facilities. A merchant's business is a convenient and generally appreciated "selling organisation" which is used for the distribution of perhaps the products of fifty or more manufacturers. Does it not stand to reason that a merchant can distribute more economically, and certainly more efficiently, through his one organisation than if those fifty or more manufacturers each set up a selling organisation—and they will have to if the merchant is cut out—to sell the same goods? It can be fairly stated that the merchants of this country in their business connections cover practically the whole world, thereby forming a network unrivalled in any other country. It is admitted that well over 75 per cent. of the pre-war export trade of this country was in the hands of the merchant. In spite of these undeniable facts, we still find State officials taking up the attitude that the merchant is of no consequence, and it looks as if certain manufacturers had succeeded in stampeding the Board of Trade into the belief that the interests of this country are best served by the elimination of the merchant. This is the only implication in view of the fact that all restrictions which have so far been placed on trade have been fashioned in a manner that leaves the merchant high and dry for sources of supply, and gives to the manufacturer a virtual monopoly. Is the Government aware that it is only by giving this so-called "middleman" a free hand that any hope of recovery to our pre-war position as the "nation of shopkeepers" can be hoped for? The Profiteering Act Department is understood to be holding a conference on irregular trading, and to be endeavouring to bring a case against merchants generally, on the strength of a few particulars of "re-sale" transactions that took place during an abnormal period. Such actions only endorse the general opinion that nowhere in the land is the lack of knowledge of commercial matters so glaring as in Government Departments. It will not, therefore, be surprising if the outcome of the conference is the issue of a memorandum once more endorsing the official view that the merchant is a parasite of industry.

The Chemistry of Vitamines.

A YEAR ago we summarised the information available regarding the presence and importance of vitamines in food, remarking upon the lack of knowledge of the chemistry of these food accessories. Recently Mr. Atherton Seidell, in his address as retiring president of the Washington Chemical Society, reviewed the present position of the chemical problems connected with vitamines. The result of work on these lines has not greatly cleared the outlook, but the experiments have brought about several interesting results. Most of the research work has been conducted on the water-soluble "B" or anti-neuritic factor, this being chosen on account of its stability during the chemical manipulations required for its separation. The facts which are known about this substance are that it is neither a salt nor a protein, it is soluble in water and in alcohol, it is dialysable and is destroyed by heating to 130° C. It has now been found that vitamine is not destroyed by hydrolysis for twenty-four hours with 20 per cent. sulphuric acid. It has also been found that phosphotungstic acid precipitates

vitamine completely from aqueous solution, and upon this fact Funk's method for its isolation has been based. The procedure consists in extracting the raw material with acidified alcohol, evaporating the extract to a small volume, acidifying the aqueous solution with about 10 per cent. of sulphuric acid, and precipitating with phosphotungstic acid. This precipitate is decomposed with barium hydroxide, and, after removal of the excess of this reagent, the solution is acidified with hydrochloric acid and evaporated. The residue is extracted with alcohol, and the alcoholic solution further purified by precipitating with various reagents, such as lead acetate, mercuric chloride, or silver nitrate, followed by barium hydroxide, phosphotungstic acid, or silicotungstic acid. A number of workers have reported the isolation of crystalline bodies from the pure solution prepared as outlined above, but in the main these results lack confirmation or the bodies have been identified as nicotinic acid, adenine, choline, betaine, guanine, etc. Numerous modifications of the general plan of extracting and precipitating vitamins have been made, these including air dialysis of aqueous extracts of dried yeast, the use of selective solvents, and improved methods of removing non-vitamine material. By a recent method protein is coagulated by boiling and removed by filtration, leaving a liquid which appears to contain all the vitamins originally present in the yeast employed. The selective absorption of fuller's earth has also been pressed into service. From the thick liquid separated by autolysis from fresh yeast, fuller's earth, added in the proportion of 50 grams per litre, enmeshed practically all the vitamins. This vitamin-activated fuller's earth can be washed without removing an appreciable amount of vitamins from it, and can be kept for a long time without losing its activity. The vitamin is removed from the fuller's earth by means of a weak alkali, but as vitamins deteriorate rapidly in alkaline mediums a return must be made to a neutral or acid condition as quickly as possible. It is not known how long the solutions prepared in this way retain their activity, but they are useful as the starting-point in the attempts to isolate an active material in a pure state. So far these efforts have not been successful, and the difficulties of working are very great because of the necessity of checking the results by lengthy physiological tests, this being the only trustworthy method at present available. These experiments are usually conducted upon pigeons, but a recent procedure based upon the observation that yeast requires vitamins for its growth shortens the process. This procedure consists in treating a synthetic culture medium containing asparagine, ammonium sulphate, sugar, and salts with known amounts of the vitamin solution, sterilised, and "seeded" with a suspension of a known weight of yeast taken from the centre of a fresh Fleischmann's yeast-cake. The amount of growth which occurs within eighteen hours at 30° C. is determined by filtering the yeast on a prepared Gooch crucible, drying at 103°, and weighing. The weight is reported to be directly proportional to the amount of vitamin in the solution. Discussing the curious loss of vitamin activity which occurs on fractionation, Mr. Seidell supports the view that the action of vitamins as a food accessory is comparable to that of enzymes. The apparent amount of vitamin required for a given result is of the same order of magnitude as is required for the transformations effected by enzymes. This view is strengthened by the negative evidence of the chemical character of vitamins. Substances which yield vitamins also contain various enzymes. Like enzymes, vitamins are destroyed by heat.

Pharmaceutical Council Election.

THERE will probably be a contested election in May for the election of seven members of the Council of the Pharmaceutical Council of Great Britain. The number of candidates will not be known, however, until the Council meeting next week, but we hear that all the retiring members are seeking re-election. These are: Miss Buchanan and Messrs. Campkin, Guthrie, Keall, Neathercoat, Sargeant, and Wolff. The Drug Union will run a candidate with a view of obtaining representation for assistants on the Council. It is possible, however, that one of the councillors who, owing to illness, has been absent from the Council meetings for the greater part of the year, will resign if necessary, so as to prevent a contest. Mr. E. Preston, Ph.C., President of the Sheffield Pharmaceutical and Chemical Society, informs us that, owing to the fact that Mr. F. Pilkington Sargeant is seeking re-election, Mr. H. Antcliffe, who was the "runner-up" at the last election, will not stand as a candidate this year. Mr. Antcliffe has always been an advocate of territorial representation, and is one of the ablest of the public men of Yorkshire. The position of the candidates at the declaration of the poll will give members of the Society another opportunity of emphasising their views regarding the councillors who helped to admit unqualified persons to the Register of Chemists and Druggists without examination.

The Dangerous Drugs Committee.

WE referred last week to the sittings of the Home Office Committee, which were continued after we went to press. The case for the Pharmaceutical Society of Ireland was stated by Mr. W. C. Meeke, the Society's solicitor, who endeavoured to simplify the legal problems involved. Mr. Fred. Storey and Mr. S. Suffern represented the Chemists' and Druggists' Society of Ireland, and Mr. Hardy the North Irish Pharmacists' Association and the Ulster Retail Drug Trade Association. Sir Wm. Glynn-Jones presented the case for hospital pharmacists, and Mr. A. H. Jenkin was called on behalf of the Public Pharmacists' Association. The wholesalers who gave evidence were Mr. C. A. Hill, B.Sc., and Mr. T. Edward Lescher. Judging from the questions asked by the official members of the committee, it would appear that the present idea is to exempt from the prescription restriction the sale of about eighteen articles containing opium or morphine. These include gall and opium ointment, Dover's powder, suppositories, and plasters. The attitude of the Home Office officials is, however, still uncompromising, and their lack of knowledge of pharmacy conditions is described by one of the witnesses as "child-like." Yet these are the people who are entrusted in the Dangerous Drugs Act with the duty of preparing regulations. It is more than probable that a stiff fight will have to be carried on in the House of Commons when the Regulations are laid on the table of the House in accordance with the terms of the Act. Chemists must be prepared to act with vigour if the occasion requires it, but the matter is rendered easier by the existence of the House of Commons Watch Committee. As we stated last week, one pharmacist on the Home Office Committee is not sufficient representation for the important interests of pharmacy, and unless reasonable Regulations are produced this will be sufficient reason for the House of Commons urging the King to reject the Regulations.

EMPIRICISM is not always to be condemned. What we call empiricism is frequently the result of past experience. As an example, take a prescription of cod-liver oil, or of butter and cream. A few years ago it would have been impossible to explain why these forms of fat are superior, we will say, to olive and vegetable margarine. The mere fact that they are better was empirical, and now the practitioner has been fully justified, and research at last has told us the explanation—namely, the existence in the fats, which are the more valuable for remedying malnutrition, of a health-giving vitamin.—Dr. W. D. Halliburton.

Drug Index Number.

THE index-figure for the month of March shows a further decline of eleven points, but that of surgical dressings has remained stationary. The fact has been shown particularly in the Insurance price per 7,000-gr. pound of acid. acetylsalicyl. (8d.), bismuth. carb. (3s. 3d.), ext. cinchon. liq. (3s. 11d.), ext. ergot. liq. (3s. 6d.), and ferri

amm. cit. (4d.). Several prices remain unchanged, while others appeared to have fallen below what is likely to be a stability figure, and, with a revival in the fine-chemical industry, will undoubtedly show a reaction towards a higher level. In others, particularly heavy chemicals, the price has remained unchanged.

Drugs, Chemicals, and Galenicals.

C=cost; I=index.	1913		Mar. 1921		Feb. 1921		Jan. 1921		Dec. 1920		Nov. 1920		Oct. 1920		Sept. 1920	
	Qty.	C.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.
Ac. acetylsal. ...	2 lb.	88	160	182	176	200	208	225	224	251	224	251	272	309	272	309
Bismuth. carb. ...	3 lb.	308	513	165	630	204	630	204	666	216	666	216	666	216	702	228
Conf. sennæ ...	4 lb.	64	141	225	144	225	144	225	144	225	168	260	168	260	176	279
Ext. casc. sag. liq. ...	6 lb.	88	232	254	232	264	232	264	232	264	232	264	243	276	324	368
„ cinch. liq. ...	1 lb.	54	117	216	164	303	135	250	135	250	135	250	138	255	138	255
„ ergot. liq. ...	2 lb.	198	344	173	428	216	535	268	541	273	676	341	876	443	876	413
Ferr. amm. cit. ...	3 lb.	57	192	337	204	358	204	350	240	421	240	421	276	484	276	484
Hexamina ...	4 oz.	15	48	320	48	320	56	373	76	506	84	560	104	493	104	493
Inf. gent. co. conc. ...	12 lb.	204	336	164	336	164	336	164	372	182	372	182	384	188	384	188
Lin. camph. ...	5 lb.	90	178	198	190	211	240	266	240	266	242	268	280	311	305	338
„ camph. amm. m. ...	8 lb.	144	252	175	292	202	304	211	304	211	304	211	420	291	456	316
„ sapo. meth. ...	10 lb.	120	245	204	245	204	245	204	245	204	280	233	310	259	310	259
„ terebiuth. ...	6 lb.	108	141	130	150	139	171	158	150	139	180	166	231	214	231	214
Mag. carb. levis ...	2 lb.	22	28	128	28	128	28	128	28	128	28	128	32	145	32	145
„ sulph. ...	14 lb.	14	66	471	66	471	66	471	66	471	66	471	66	471	66	471
Ol. morrhuae ...	10 lb.	80	140	175	185	231	180	225	190	237	195	243	210	260	220	275
Phenacetin. ...	4 oz.	18	60	333	64	355	76	422	80	444	84	466	92	511	92	511
Phenazonum ...	4 oz.	24	60	333	64	266	68	283	76	316	92	383	84	350	104	433
Potas. brom. ...	4 lb.	88	96	109	96	109	108	123	120	136	144	163	176	206	192	218
„ iod. ...	2 lb.	298	456	153	480	161	480	161	480	161	480	161	498	167	498	167
Quin. sulph. ...	4 oz.	80	224	280	224	280	224	280	236	295	236	295	256	320	256	320
Resorcin. ...	1 oz.	5	16	320	17	340	18	360	22	440	24	480	26	520	36	720
Sodii benz. ...	3 oz.	13	15	115	15	115	16	123	16	123	18	138	21	161	21	161
„ salicyl. ...	4 lb.	132	228	172	228	172	240	181	288	218	272	206	320	242	320	242
Sp. chlorof. ...	2 lb.	96	127	132	143	149	146	152	146	152	152	158	171	178	171	178
Syr. ferr. ph. co. ...	4 lb.	36	84	233	84	233	98	271	104	288	112	311	112	311	130	266
„ Eastonii ...	3 lb.	54	123	227	123	227	134	248	134	248	140	259	140	259	150	277
Tr. chlor. et morph. '85	2 lb.	80	120	150	115	143	124	172	129	161	129	161	129	161	133	166
Ung. ac. borici ...	7 lb.	77	196	254	196	254	196	254	196	254	196	254	210	272	210	272
„ zinci ...	4 lb.	88	120	136	120	136	140	146	140	146	140	146	148	165	148	165
Index Number ...	100		215·8		226·0		239·0		258·2		268·2		289·6		334·6	

Surgical Dressings.

—	1913		Mar. 1921		Feb. 1921		Jan. 1921		Dec. 1920		Nov. 1920		Oct. 1920		Sept. 1920	
	Qty.	C.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.
Bandages	144	144	315·8	220	316·8	220	345·6	240	403·2	280	432	300	432	300	590	409
Gauze ...	72 yd.	72	219·6	305	219·6	305	237·6	330	288·0	400	330	458	330	458	330	458
Lint ...	28 lb.	460	1190·0	239	1190·0	239	1260·0	270	1680·0	365	1680	365	1764	383	1648	402
„ boric	56 lb.	624	1668·0	267	1668·0	267	1736·0	278	1960·0	314	2184	350	2352	377	2520	404
Cotton wool	14 lb.	756	1680·0	222	1680·0	222	1680·0	222	1848·0	244	2722	353	2722	353	2722	360
Index Number	100		250·6		250·6		268·8		320·6		365·2		374·2		406·6	

Dangerous Drugs Act Regulations.

The Departmental Committee.

SIR BEVILLE STANIER, M.P., has been appointed an additional member of the Home Office Committee, which is considering the outstanding objections to the Draft Regulations. Sir Beville, who is a governor of the Harper Adams Agricultural College, chairman of the Rural League and of the Beet Sugar Council, represents the agricultural interests (see also p. 66).

The Medical Evidence.

The medical views regarding the Draft Regulations are contained in the memorandum which was published in the *C. & D.*, February 19, p. 50. These views were emphasised in the evidence given before the Departmental Committee by Dr. Alfred Cox and Dr. J. W. Bone (*C. & D.*, March 26, p. 79). The following summary of the evidence is taken from "The British Medical Journal":

1. The Association understands that the Committee is in possession of the correspondence which has passed between the Association and the Home Office in respect to the Draft Regulations. It is proposed, therefore, to take the detailed consideration of the Regulations up at the point where it was left by the letter from the Home Office of February 15, on the assumption that the alterations in the Regulations promised by the Home Office will be made.

2. But before dealing with any details of the Regulations the Association desires to emphasise the statement made in the first paragraph of its memorandum of February 3—namely, that it is "aware of the public danger arising from the improper use of the drugs . . . and recognises that in consequence medical practitioners must submit to the imposition of certain restraints in prescribing, compounding, dispensing, and administering these drugs, and of certain clerical duties in recording their transactions in them." The Association, speaking on behalf of a very considerable section of the medical profession, trusts that before placing on the profession such restraints and clerical duties the Committee will satisfy itself that they are necessary, will carry out the objects of the Opium Convention, and are not merely being imposed on doctors because it is felt that as regulations must be imposed on some distributors they must be imposed on all.

3. Clause 7 of the Dangerous Drugs Act, 1920, says that provision may be made for, *inter alia*, regulating the issue of prescriptions and the dispensing of the drugs by medical practitioners "for the purpose of preventing the improper use of the drugs." The Association earnestly hopes that the Committee will satisfy itself that improper use of the drugs can rightfully be laid to the charge of the medical profession. So far as the British Medical Association has been able to ascertain, there is no evidence that the medical profession has had any part in the illicit traffic in these drugs. Unless the Committee is satisfied that there is such evidence, the Association would urge that it will not countenance the idea of placing restrictions on a body of professional men to whom the lives and health of the community are entrusted, and who, therefore, may be assumed to be trustworthy as regards handling powerful and dangerous drugs. Their time ought not to be taken up in keeping records of small dealings in drugs unless it can be proved that these records are essential.

4. The Association has carefully examined the Draft Regulations as amended in accordance with the Home Office letter of February 15 (*C. & D.*, March 5, p. 68). It would appear that the idea originally underlying the Draft Regulations was that every distributor of the drugs shall keep a balance-sheet of his dealings in them—that is to say, that every doctor, for example, shall keep records which would enable anyone investigating them to ascertain how much of each of the drugs has come into the doctor's possession and what has become of them. The Association agrees that if this could be done the information thus obtained would enable a close check to be kept on the distribution of these drugs.

5. But this idea, which presumably underlay the original Draft Regulations, has been abandoned. The striking of a balance was never a possibility, even under the original draft, if Clauses 4 and 5 (as explained in the Home Office letter of February 15) were not meant to apply to personal administration, and seeing also that no record need be kept of those quantities of the drugs which are used in making preparations of less percentage strength than those

mentioned in the Act. Under the Regulations as amended the check kept on the distribution of those of "the drugs" which get into the possession of a medical practitioner is worthless.

6. The following example is taken from the practice of one of the witnesses (Dr. Bone) who is a partner in a large practice in Luton which dispenses for all its private patients:

In 1919 there were twenty-five buying transactions in the scheduled drugs which, aggregated, would appear as follows:

<i>Opium.</i>	
Tinct. opii	2lb. 8 oz.
Liq. opii sed.	8 oz.
Pulv. ipecac. co.	4 oz.
Pil. plumbi c. opio (gr. 5)	1 gross
Pil. opii (gr. $\frac{1}{2}$)	1 gross

<i>Morphine.</i>	
Morph. sulph.	2 dr.
Liq. morph. hydrochlor.	9 oz.
Tinct. chlor. et morph.	6 oz.
Hypodermic tablets morph. sulph. (gr. $\frac{1}{4}$)	2 tubes
(20 in each tube)	
Hypodermic tablets morph. sulph. (gr. $\frac{1}{8}$)	2 tubes
(20 in each tube)	

<i>Heroin.</i>	
Tabellæ heroin (gr. $\frac{1}{32}$)	124

<i>Cocaine.</i>	
Tabellæ cocain. et pot. chlorat.	200
Ophthalmic tablets cocain. hydrochl. (gr. $\frac{1}{50}$)	2 tubes
(12 in each tube)	

7. The outgoings that would require to be recorded under the Regulations (as amended by the Home Office letter of February 15) would only be those relating to pulv. ipecac. co., pil. plumbi c. opio, pil. opii, and the tablets of heroin and cocaine, as these are the only transactions in which any of the drugs were dispensed at or above the scheduled percentage strength. In every other case the drugs were administered personally or were dispensed in mixtures below the scheduled strength. Such a record would, it appears to the Association, be useless as a check on illicit traffic.

8. The Association would again raise the question asked in its letter of February 3—namely, "In small hospitals without resident house-surgeons, in nursing homes and in private practice where a trained nurse is in attendance, it is a common occurrence to leave a hypodermic injection or a sedative draught which would contain one of the scheduled drugs to be given if necessary. Would this be in conformity with the Regulations, or would the nurse or orderly be a person not authorised to be in possession of the drug?"

The class of cases above alluded to is a very common one, and unless the doctor can delegate his authority to administer the drugs personally there will be much totally unnecessary suffering. It cannot be expected, for example, that the honorary medical officers to hospitals should pay visits to those institutions merely to administer a sedative drug which up to the present has been administered, without any evidence of abuse, by trained nurses or other responsible persons.

9. The Association believes that Regulation 9 presents the following dilemma. Take the case of a person handing to a chemist, say in Brighton, a prescription purporting to be signed by a doctor in York. Either the chemist is a very careful person who declines to take the risk of deciding whether or not the prescription is really signed by a medical practitioner (he could only be sure if he were familiar with the writing), or he accepts the prescription at its face value and takes the risk of it being a forgery. In the first case, the patient may be put to quite unnecessary inconvenience; in the second, the Regulation is seriously impaired as a protection against unauthorised possession of the drugs.

10. Regulation 13.—The Association is not satisfied with the answer given in the Home Office letter of February 15. It is not yet clear whether Regulation 13 does or does not require that the messenger of an authorised person (either doctor, chemist, or patient) must be authorised in writing to receive the drugs. If it is meant that there is to be an authorisation in writing in every case, the demand is an impossible one. If such authorisation is not demanded, the uncertainties and difficulties of the pharmacist seem to be very great. Any undue difficulties placed in the way of the pharmacist will, of course, be reflected on the patient, and in due course on the doctor who gives the prescription.

11. The Association must in any case press for the exclusion of the substances mentioned in its letter of February 15. Regulations may be necessary as regards some preparations of the drugs, but it is impossible for anyone to hold that any of the substances mentioned in that letter (with the possible exception of pulv. ipecac. co.) could be used by the illicit drug-taker. There seems no reason why they should not be excepted from any restrictions laid on prescriber, buyer, or seller.



UNWILLING TO LEARN.

The Home Office has at last realised the advisability of a rudimentary knowledge of the pharmacy laws of the United Kingdom.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres.

ENGLAND.

Hertfordshire.—At a recent meeting of the Insurance Committee it was stated that arrangements have been made whereby the three firms of chemists in Hertford under agreement with the Committee will consecutively give attendance for a week at a time from 7 to 8 p.m. on week-days for dispensing prescriptions issued to insured persons. Two additions have been made to the list of persons supplying drugs and appliances.

Devon.—A meeting of the Pharmaceutical Committee was held at Plymouth on March 23. Mr. F. March (chairman), on behalf of the Committee, congratulated Mr. P. F. Rowsell on his election to the Devon County Council. The reports of the Central Checking Bureau for September and October were accepted, and details connected with the tariff and terms of service were discussed.

SCOTLAND.

Kirkcaldy.—At a recent meeting of the Burgh Insurance Committee it was reported that the Drug Fund showed a deficit of 100%, but the deficit was very small when it was considered that dispensing-fees had increased threefold. A member expressed the opinion that the position was favourable compared with that of other districts.

Festivities.

Liverpool Chemists' Smoking Concert.

ON March 30 the Liverpool Chemists' Association held the annual smoking-concert in aid of the Pharmaceutical Society Benevolent Fund. The Lord Mayor had accepted an invitation to attend, but was detained on an engagement out of Liverpool. The President (Mr. Clubb), who presided, instead of the Lord Mayor, said the Pharmaceutical Society was constantly criticised, but never regarding its Benevolent Fund. He had been surprised on calling on a gentleman to learn that he had never heard of the Benevolent Fund. He (the President) told him he ought to dig deeply in his pockets, and happily this hint was taken. (Applause.) He asked the President of the Pharmaceutical Society (Mr. E. T. Neathercoat), the chief guest, to speak on behalf of the Fund. Mr. Neathercoat said he had come specially from London to "pull an oar" with Liverpool pharmacists for the Fund. Nowhere had this object greater friends than in Liverpool, and, as help was much needed, he asked Liverpool to set the signal for the rest of Great Britain. A collection realised 66%, and brought the donations up to 112%—a record contribution towards the 150%, which is the amount aimed at by Liverpool district. The presentation of a clock and pair of vases followed to Mr. Willings, late honorary treasurer. In reply, Mr. Willings said he had been forty-five years a member of the Association and for twenty-five years treasurer. He rejoiced that that office had passed into younger and competent hands. Mr. Moreton Parry acknowledged the collection on behalf of the Benevolent Fund. A large company, including many ladies, enjoyed a capital entertainment.

Scottish Federation Dinner.

A DINNER under the auspices of the Glasgow Branch of the Scottish Pharmaceutical Federation was held on March 23 in the Grosvenor Restaurant, Glasgow. Mr. Donald G. MacKenzie (President) presided over a large company. Bailie J. Anderson Russell, chemist and druggist, Greenock, proposed the toast of "The Corporation of Glasgow," and Bailie Turner, the Senior Magistrate, responded. The toast of "The Medical Profession" was proposed by Mr. J. B. McVittae. Dr. William Snodgrass, who replied, said that there was in contemplation a great development of the British Medical Association which would tend to make it a federation and not the close corporation it had hitherto been. The agitation over the Dangerous Drugs Act showed the benefit of federation. Mr. Anthony McMillan, who proposed "The Pharmaceutical Society," said that at no previous time in its history had the Society been able to wield such an influence in the carrying out of poison laws and regulations and in education. He referred to the affection which graduates have for their Alma Mater, and he appealed for a similar feeling from the members for the Society. Mr. Harvey P. Arthur, who responded, said that the progress made by pharmacy during the last sixty years had undoubtedly been due to the Society's raising the status of the profession. The toast of "Our Guests" was proposed by the chairman, and responded to by Dr. David Ellis. Mr. J. Miller Thomson, W.S., Edinburgh, who submitted the toast of "The Scottish Pharmaceutical Federation," said that in the business of buying and selling there was to be found the necessity for the Federation. There was also, he said, the danger of too much State interference, and regarding the Regulations of the Dangerous Drugs Act he thought that the best course would be to make an attempt to repeal the Act in so far as it dealt with the internal sale of drugs. Mr. A. McEwan, who replied, said that the Federation had its origin in Glasgow. The effect of the start had borne fruit throughout the country. He said that as employers they felt that education, after all, is the bedrock on which the Federation rested.

The seventy-ninth annual meeting of the Early Closing Association will be held in the Grocers' Hall, London; E.C., on April 21, at 3 p.m.

Reviews of Books.

Treatise on Chemistry. By SIR H. E. ROSCOE, F.R.S., and C. SCHORLEMMER, F.R.S. Vol. I.: The Non-metallic Elements. Fifth edition (revised by J. C. Cain). Pp. 968, 9×5½ in. 30s. (London: Macmillan & Co., Ltd., St. Martin's Street.)

Several generations of chemists associate the name of Roscoe with the "Lessons in Elementary Chemistry," which was their first introduction to chemistry. Many are also acquainted with the monumental "Treatise on Chemistry," first brought out in 1877 by Sir Henry Roscoe in association with Professor Schorlemmer, these two being colleagues at Manchester University. After Professor Schorlemmer's death Sir Henry brought out further editions, in 1894, 1905, and 1911, the last one in association with the late Dr. J. C. Cain. Sir Henry Roscoe died in 1915 and Dr. J. C. Cain undertook the revision of the work, the fifth edition now before us being the result. The complete treatise occupies three volumes, the first two being devoted to the non-metallic and metallic elements respectively, while Volume III., consisting of six parts, deals with organic chemistry. The features of Roscoe's chemistry are the historical setting of the subjects, the references to original papers, well-chosen illustrations, the clear type in which the book is printed, and the easy literary style. We consider the historical *résumé* to the general subject and to the particular chemicals as the best introduction which a student can have, as this method, being the most natural, is calculated to impress the subject on the mind. The present edition occupies more space than the previous one, and evidence that the revision has been thoroughly well carried out is given by the references to published papers of 1920. The historical introduction occupies forty-three pages, and then a hundred pages are devoted to the general principles of chemistry, the rest of the book dealing with the non-metallic elements *seriatim*, the gases of the helium group forming the concluding chapter. The preparation of helium at Calgary, Alberta, for the inflation of airships is mentioned, the paper on the subject which gave the information having been read before the Chemical Society recently. The frontispiece is an engraved portrait of John Dalton.

Poisons: Their Effects and Detection. By A. WYNTER BLYTH and M. WYNTER BLYTH. Fifth Edition. 9×6 in. Pp. 745. 36s. (London: Charles Griffin & Co., Ltd., Exeter Street, W.C. 2.)

Originally, in 1879, Mr. Wynter Blyth, well known as medical officer of health and public analyst for many years for St. Marylebone, brought out a manual of practical chemistry, dealing especially with the analysis of foods and the detection of poisons. The work was then separated into two books dealing respectively with foods and poisons. The work under review is the fifth edition of the book on poisons. The first part is devoted to poison lore and historical criminal poisoners, and it also deals with the development of chemical methods of detecting poisons. Part II. deals with the definition, classification, and statistics of poisons, the connection between toxic action and chemical composition, the action of poisons, and procedure in searching for poisons. The authors' definition of a poison is "A substance may be called a poison if it is capable of being taken into any living organism and causes by its own inherent chemical nature, impairment or destruction of function," which includes some things such as spirits and beer, not usually classed as poisons. The poisoning statistics deal with the five years ended December 1916, the eight most frequently employed poisons being shown to be oxalic acid, carbolic acid, opiates, hydrochloric acid, potassium cyanide 142, ammonia 140, prussic acid 126, veronal 119. The book does not deal with the sale of poisons. Part III. deals with poisonous gases which have but minor interest to pharmacists, Part IV. with acids and alkalis, Part V. with poisonous substances more or less volatile, Part VI. with alkaloids and poisonous vegetable principles,

Part VII. with poisons derived from animal substances, and Part VIII. with inorganic poisons. Hundreds of poisonous substances are dealt with in the book in more or less detail, the sources, properties, normal doses, and methods of detection being given. This information occupies about 670 pages of the book, the space allotted being in proportion to the importance of the poison—*e.g.*, arsenic needs sixty pages for all the particulars.

The Care of Children: A Guide for Mothers and Nurses at Home and Abroad. By ROBERT J. BLACKHAM, C.B., D.S.O., M.D., etc. Fourth Edition. 7¼×4½. Pp. 113. 4s. 6d. (London: The Scientific Press, Ltd., 28 & 29 Southampton Street, Strand, W.C. 2.)

A sympathetically written book which gives mothers authoritative information upon the rearing of children. The author is a medical man of wide experience, with the advantage that he began his distinguished career as a pharmaceutical chemist. Hence the information on drugs is concise and correct. The various chapters deal with different phases of child welfare, such as food, drink, medicines, clothing, cleanliness, exercise, diseases, first aid, etc. The list of medicines which mothers may use with safety is as follows:

Internal Remedies.—Dill water, compound liquorice powder, Gregory's powder, fluid magnesia, manna, castor oil, sulphur, liquid paraffin, ipecacuanha wine, cod-liver oil, extract of malt, lime-water, citrate of soda, olive oil, bicarbonate of soda, sal volatile.

External Remedies.—Borax, camphorated oil, boracic powder, lanoline, boracic ointment, tincture of iodine.

Information regarding each of these medicaments is given in a form which should be very helpful to the laity. At the end there is an excellent table of communicable diseases, with symptoms and other particulars needed for diagnosis. The book is one which chemists can with confidence introduce to their customers.

A magyar gyógyszerészet a proletárdiktatura és a politikai átalakulások idején. By OTTO V. KORITSASZKY. Pp. 306. (Budapest: 1920.) (Hungarian pharmacy during the dictatorship of the proletariat and political changes.)

The author, who was prior to the war the editor of one of the leading Hungarian pharmaceutical journals and is known as a writer, not only on professional subjects, but also in other realms of literature, places on record the vicissitudes which the pharmaceutical profession had to endure during the brief reign of Bolshevism in Hungary, under the régime of the notorious Bela Kun. For many years there had been a growing bitterness against the prevailing conditions in the profession among the pharmaceutical assistants, largely attributable to the very slender chance of ever becoming an owner. The more radical elements were avowedly attached to socialistic doctrines, and in the end, on September 25, 1918, this group formed itself into a full-fledged trade union, and during the revolution in October of the same year, which resulted in the downfall of the Hapsburg dynasty, took an active part in these political convulsions. On the advent of the Bolshevik Government under Bela Kun, on March 21, 1919, this organisation immediately seized the opportunity of constituting itself the sole authority over the profession. Owners of pharmacies, as representatives of the hated "Bourgeois" class, were summarily turned out of their businesses, and to obtain a livelihood were compelled to apply to this organisation for work. During the first few days chaos reigned supreme, until the people's commissaries turned their attention to the administration of the profession. All pharmacies, druggists, chemical factories, and wholesale drughouses were nationalised; an inventory of the stocks held had to be submitted to the central office. In this way 318 pharmacies in seventy-four towns were nationalised, of which, however, only a part were actually administered on communistic lines. The first step taken was to appoint to each pharmacy a foreman, who was responsible for its administration, and, needless to say, had to be an ardent communist to qualify; while a workers' council was nominated by the

entire personnel of the pharmacy, including the packer, charwoman, etc. The takings were primarily destined to pay the wages of the "pharmaceutical workers," and here the author gives a few illuminating figures of the financial effects of communism in pharmacy. On February 1, 1919, 111 owners paid out in salaries and wages to their personnel a total of 396,721 crowns; on May 1, in the same pharmacies, the expenditure under this heading amounted to 1,143,345 crowns, and whereas formerly these businesses had been self-supporting and yielded a profit to their owners, the takings under the Bolshevik *régime* did not pay the salaries. Anarchy reigned in the pharmacies, the older assistants and former owners were terrorised by the communist personnel, who to avoid work would send away patients with the curt statement that the medicine required was "not in stock," and the phrase "not in stock" became a current expression. Conditions assumed such a deplorable aspect that the people's commissaries saw themselves finally compelled to seek the advice of professors and other adherents of the old *régime*, whose advice was to dismiss the "politicians"—i.e., the youthful hotheads—and replace them by fully qualified pharmacists regardless of their political convictions. That the Bolshevik dictators decided, on June 12, to entrust the entire administration of pharmacy to the former council of the Hungarian Pharmaceutical Association, assisted by only one representative of the pharmaceutical trade union, was a signal proof that they acknowledged the failure of their system. In spite of the bitter opposition of the trade union and their threats, the people's commissaries refused to be intimidated; later, the author undertook the direction of the pharmaceutical section until Bela Kun's fall, which he also retained under the following Government. The Communist Government proposed to centralise the entire manufacture and trade in medicines of all kinds, not only as regards their collection, production, and distribution to the pharmacies in the country, but also their exportation. The acute shortage of practically all the principal drugs led to the introduction of many drastic restrictions. Thus we read that doctors were forbidden to prescribe except in very urgent cases, and in no instance in amounts exceeding three days' treatment; pharmaceutical specialities were supplied only in amounts representing one dose at a time. Cosmetics might be sold, but it was forbidden to prepare any which contained a substance included in the Pharmacopœia, except on a prescription. On page 141 of the book the decree of June 3 is reproduced, enumerating the substitutes and their doses for fifty-two drugs which were unobtainable. Thus, boric acid was to be substituted by the use of a 2-per-cent. hydrogen-peroxide solution, or 0.025 to 0.01 per cent. solution of potassium permanganate; aloes by buckthorn bark, buckbean, phenolphthalein, or Glauber salt; bismuth salts by an aqueous suspension of kaolin, or oak bark, sage, bearberry; glycerin by a 5-per-cent. maceration of linseed; ipecacuanha by soapwort or by tartar emetic; morphine by heroin; cod-liver oil by oil of maize; strophanthus by digitalis, false hellebore, or lily of the valley; theobromine by the following mixture: Squill, 1.5; juniper berries, 12.5; alcohol, 30; water, 170; digest for four days, then add digitalis 1, digest for three hours, filter and add solution of potassium acetate 4 grams. Shortly before the overthrow of Bela Kun's *régime* a pharmaceutical curriculum was elaborated, which provided for a course of four years' instruction at a new pharmaceutical school which was to have been opened in October (Bela Kun was in power until August 7, a little over four months in all). However, during the Bolshevik *régime* one long-standing demand of Hungarian pharmacists has been realised, and remains a permanent institution—that is the inspection of the pharmacies by members of the profession, instead of being carried out by the district medical officer of health. To show to what extent the hatred against the owners went, it may be mentioned that the nationalisation of pharmacies entailed not only the loss of the business, but of all the owner's private property as well, including such articles as jewellery, bicycle, and stamp collections, etc.; and if a member of his family were employed in some capacity in the business, he was removed by the trade union and provided with work elsewhere.

Associations' Winter Session.

Belfast.—A committee-meeting of the Ulster Retail Drug Trade Association was held in the Rooms of the Chemists' and Druggists' Society, Belfast, on March 21, the President (Mr. Huston Lancashire, J.P.) in the chair; other members present were: Messrs. W. E. Wilson, J. A. Bingham, James Tate, E. T. Roberts, H. F. Moore, J. Hewton, H. Crail, C. B. Abernethy, R. Kells, and the secretary (Mr. W. J. Stevenson). Mr. Tate referred in generous terms to Mr. F. J. Blakemore, President of the National Chamber of Trade, who had rendered excellent services in various pharmaceutical matters and trade interests. Correspondence having been dealt with, a discussion followed on Association affairs.

Dublin.—The Dublin Retail Drug Association held a committee-meeting on March 23, Mr. A. Owen Wells (President) in the chair. The following were also present: Messrs. R. Campbell, G. A. McLean Lee, John Smith, A. H. Oliphant, W. F. Ellis, R. White, Victor E. Hanna, Dr. J. A. Walsh, and Mr. R. J. Kidney (secretary). Mr. Warwick (W. F. Wells & Co., Upper Baggot Street) was co-opted a member of the Committee in place of the late Dr. J. C. McWalter. Correspondence from the following was received and dealt with: Burroughs Wellcome and Co., Ulster Retail Drug Trade Association, the Thermogene Co., Ltd. (Sussex), Pharmaceutical Society of Great Britain, M. J. Dore (Newcastle West), Leonard & Co. (North Earl Street), E. Hill (Middleton), and the British Pharmaceutical Conference.

Ealing.—A party of members of the Ealing Pharmacists' Association visited the works of A. & F. Pears, Ltd., at Isleworth, on March 16. On arrival at the works the party was divided into two sections, to each of which was attached an official, who explained the various processes, beginning with the boiling of the fats and alkali. One of the guides, while on the subject of glycerin, mentioned that he was old enough to remember when the glycerin was all run to waste, and he had lived to see (during the war) the soap become the by-product in the manufacture of glycerin. The method of drying the soap was next examined, and in the refining process the familiar transparent appearance is obtained. Some interesting machinery is utilised, including one machine that is capable of cutting 30,000 tablets a day. Both the tablets and bars are finished and polished by hand, and they are kept for nearly twelve months to mature before being sent out of the factory. Alcohol enters largely into the preparation of Pears' soap, and an underground storage tank holds 10,000 gallons. Tea was served in the canteen, a building containing a stage, replete with scenery, lights, etc., and capable of holding over 1,000 people, and it is here that the employees hold their concerts and social functions. After tea the factory in which the "Golden Series" was being produced was explored.

South-Western Federation.

A MEETING of the South-Western Federation of Pharmaceutical Associations was held at Plymouth on March 23, Mr. H. E. Matthews (President) in the chair. There was a good attendance of local pharmacists. The President of the Plymouth Association of Pharmacists (Mr. J. D. Turney) welcomed the Federation to Plymouth. Delegates were present from Bristol, Cornwall, East Devon, North Devon, Exeter, and Torquay and district. Mr. P. F. Rowsell gave an address on the Retail Pharmacists' Union, and other items of current pharmaceutical interest, appealing to every proprietor-chemist to join the Union. A discussion followed, and resolutions were passed to record appreciation of the work done for pharmacy by the Local Associations Executive, and welcoming the consolidation of trade interests under one management in the Retail Pharmacists' Union and the Chemists' Defence Association. It was also agreed to support the Union throughout the area. A collection for the Benevolent Fund realised 2l. 9s. 3d. After the meeting the delegates were entertained to tea by the Plymouth Association.

Calcutta Chemists and the Rate of Exchange.

A GENERAL MEETING of the Calcutta Chemists' and Druggists' Association was held in Paul's Building, Bonfield Lane, Calcutta, on Sunday, February 27, Mr. H. Paul, of B. K. Paul & Co., presiding. The business discussed was the exchange question, and Mr. M. Aluzad, of H. S. Abdul Gunny, proposed the following resolution: "This Association is of the opinion that the exchange banks in Calcutta should collect drafts at the rate of exchange ruling on the date of maturity, as was customary with them in the year 1915, and not, as they are doing now, at the rate ruling at the date of collection *plus* the interest, a course which this Association disapproves of and strongly protests against." This was seconded by Mr. H. G. Nag, who said:

We are here to make certain practical suggestions to exchange banks, in whom we have always reposed a good deal of confidence in the past, and we are sure that, having regard to our past transactions with them, we shall not be denied their co-operation with us, specially at this critical juncture, in reducing the outstanding drafts which are so heavy in number at present in Calcutta. The suggestion which we are making to the bank in accepting payment at the rate of exchange which was ruling on the date of maturity cannot be considered, in the opinion of this Association, impracticable, since we are not asking them to accept a fixed rate of exchange. Our claim is that we should be asked to pay at the exchange ruling on the due date, as was the practice in the year 1915, and we utterly fail to understand why the bank, because the English rate of exchange is coming down, should take advantage of same, since the privilege was refused to us in the year 1915. On studying the exchange problem we understand that the bank cannot possibly lose any money by giving us the facility of paying the bills at the ruling rate of exchange on the date of maturity so far as the hypothecated drafts are concerned. The banks are always covered for the import bills against those for exports, and so you will see that the banks cannot lose any money by accepting payment for the hypothecated drafts at the exchange ruling on the due date. The fact is known to everybody that if the bank "A" in London hypothecate a bill for 1,000*l.*, say, from the drawers, J. B., Ltd., London, and transmit same to the bank "B," located in Calcutta, the bank "B" does not remit the sum in bullion, but the bank "A" debit the sum to the account of bank "B," which is previously or synchronously covered here for that 1,000*l.* by a previous purchase of the same amount drawn by Calcutta firms on a London house through the bank "B." The bank "B," you will thus see, transmit the said draft to the London house through the bank "A," London, debiting the said sum of 1,000*l.* to the account of London bank "A." The question may naturally arise here whether in case of a fluctuation of exchange the bank "B" will lose money or not in case they were to give effect to our suggestions, and our reply to same is in the negative, in support whereof I cite a concrete instance, which I believe will bring the matter home to the members present. When the draft for 1,000*l.* fell due the rate of exchange at this end was, say, 2*s.* per rupee, and if the payment were made on due date by the drawers here the bank would have realised from the drawees in payment of the draft the sum of Rs. 10,000; and an export bill for 1,000*l.* being negotiated with the same bank by exporters here, the exporters at the then buying rate of exchange got only the sum of Rs. 10,000, or a somewhat less amount, the buying rate of exchange being always more in favour of the bank than the selling rate. The next point is whether the bank will lose money if the drawee at this end fail to keep his engagement on due date or not, and my reply here, too, is in the negative, the fact being that the bank "B" in Calcutta never paid anything more against the export drafts than what we ask them to accept at the rate of exchange ruling on the day the draft matured. Having thus proved conclusively that by giving effect to our suggestion the bank, so far as the hypothecated bills are concerned, cannot lose any money over the fluctuation of exchange, I now turn to the other side of the case—i.e., what is the profit of the bank in waiting for the payment? And our reply is, "It is the high interest which pays an adequate profit on the money invested by them." In this time of financial crisis it is absolutely necessary that parties concerned in the trade should take up a conciliatory attitude to tide over the difficulties and to bring back the trade, especially between

India and Great Britain, to its normal standard. We read that for want of sufficient cargo a large amount of tonnage is lying idle, of which 600 ships, with a tonnage of 2½ millions, are laid up in the United Kingdom, and 250 ships, with a tonnage of 2 millions, in the United States. Such being the condition of the trade, and the heavy loss the importers are now suffering from the general slump in this market, we see before us a large amount of goods held up all over India, and the consequent lock-up of an enormous capital. We therefore request the exchange banks to treat the suggestion we are now placing before them for consideration in the light and spirit it deserves.

After discussion the proposition was carried unanimously. The meeting closed with a hearty vote of thanks to the President.

[In reference to the above resolution, it would appear that the deductions are not correct, as any banker would point out. The fact was that in 1915 the dealer accepted the draft and then mortgaged it to the bank for 75 per cent. of its value, and also deposited 25 per cent. in cash with them—the rest being a paper transaction. They could have done the same last June or July, but the dealers thought that the rate of exchange would rise.—EDITOR.]

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(From "The Trade-marks Journal," March 9, 1921.)

- "BEVCO" on oval device; for chemicals (1 and 2). By Bevan Churchill & Co., Ltd., Finsbury Court, London, E.C. 2. 411,472/473. (Associated.)
- "ESOXIA"; for wood preservatives (1). By the Esitol Chemical Co., 67 Southwark Street, London, S.E. 1. 411,594.
- "REVARNO"; for chemicals (2). By W. Engall & Co., Ltd., 20 Long Acre, London, W.C. 2. 411,820.
- "SANTICARE"; for chemicals (2) and for goods (47). "BULWARK"; for chemicals (2). "BRITOLIC"; for soap, etc. (47). By the British Soap Co., Ltd., Foster Street, Wilmington, Hull. 411,030/031. (Associated.) 411,285; 411,033.
- "HALEOL"; for all goods (2). By Brookess Chemicals, Ltd., St. Giles Road, Lightcliffe, near Halifax. 411,222.
- "PELMONOL"; for chemicals (2). By the Liverpool Borax Co., Ltd., Borax Street, Liverpool. 411,600.
- "EXLAX"; for medicinal tablets (3). By Silberberg Bros., 79 Christian Street, St. George's, London, E. 1. 410,685.
- "EUCAZONE"; for a medicine (3). By C. E. Howship, 30 Sebert Road, Forest Gate, London, E. 7. 411,143.
- "ZOMOGEN BRAND"; for internal medicines (3). By W. N. Stokoe, 67 Inchview Terrace, Edinburgh. 411,256.
- "VESTA"; for surgical instruments, etc. (11). By J. G. Ingram & Son, Ltd., Felstead Street, Hackney Wick, London, E. 9. 411,445.
- "SUNICE"; for toilet preparations (48). By the Gum Tragaccol Supply Co., Ltd., Hooton, Cheshire. 409,655.

(From "The Trade-marks Journal," March 16, 1921.)

- "GRAESANTO"; for all goods (1 and 3). By the Graesser-Monsanto Chemical Works, Ltd., Cefn, Ruabon, N. Wales. 411,513/514. (Associated.)
- "DESENSITOL"; for chemicals (1). By Ilford Ltd., Roden Street, Ilford, Essex. 411,785. (Associated.)
- "CARZOLENE"; for chemicals (2). By R. H. Maddocks, 5 Merton Place, Birkenhead, Cheshire. 409,712.
- "KURAK"; for veterinary chemicals (2). By J. Kane, 3 College Road, Moseley, Birmingham. 410,936.
- "WINTOPINES"; for a medicine (3) and for confectionery (42). By Goodall, Backhouse & Co., White Horse Street, Leeds. 409,279/734. (Associated.)
- "BARLAX"; for laxative tablets (3). By E. Skues, 221 Upper Tooting Road, London, S.W. 17. 409,965.
- "SUMUVAR"; for goods (3). By E. H. Gorman, 21 Molyneux Road, Waterloo, Liverpool. 410,178.
- "OTIS"; for medicinal chemicals (3). By W. G. A. Turner, 90 Adelaide Road, Brockley, London, S.E. 4. 410,366.
- "IODFORTAN"; for medicinal chemicals (3). By A. Jaffé, Alexanderstr. 27A, Berlin. 410,514.
- "STIMULECTINE"; for medicinal chemicals (3) and for food substances (42). By E. Jackson & Co., Ltd., 28A and 29 High Street, Crediton, Devonshire. 410,752/753. (Associated.)
- "STABILARSAN"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 411,118.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, March 31.

BUSINESS in the Mincing Lane produce markets having been suspended during the greater period of the week there is little of interest to record. At the same time the markets generally are showing a somewhat better feeling, due to the fact that consumers' stocks must now be extremely small, but business in the aggregate is much below the normal. There is less giving way on prices, and it is felt that many have touched the bottom, and in instances where they are below the cost of production a recovery is looked for. It is probable that we shall have easier monetary conditions during April, and this should tend to revive confidence. There is, however, likely to be no decided revival in international trade until the Reparation difficulty with Germany has been satisfactorily disposed of. Meanwhile the measure which comes into operation on April 1 appears to have practically put a stop to exports from Germany to this country. The London produce brokers have agreed to increase their selling brokerage on the spot from 1 per cent. to $1\frac{1}{2}$ per cent. as from May 2 on a large number of drugs enumerated elsewhere.

Firmer	Easier	Lower
Amidopyrin	Anise, star, oil	Arsenic
Lime oil (h.p.)	Farina (Jp.)	Peppermint oil
Paraldehyde	Galls	(American)
Sodium prussiate	Linseed oil	Turpentine
Sulphonal	Magnesium	Titanium, white
	Pimento	
	Potashes (Montreal)	

The next drug-auction will be held on Thursday April 14.

Cablegrams.

AMSTERDAM, March 31.—There was no demand at the coca-leaf-auction to-day, only the equivalent of two kilos, of alkaloid being disposed of.

BERGEN, March 31.—The total catch of cod for the whole of Norway since the opening of the season amounts to 20,900,000, against 17,300,000 for the corresponding date of 1920, and the yield of steam-refined medicinal oil is 36,106 hectolitres, against 26,896 hectolitres at the same period of last year. Finest new Lofoten oil is quoted at 105s. per barrel c.i.f. London.

NEW YORK, March 30.—Business is fair. Mercurials are lower. Calomel has been reduced to 95c., white precipitate to \$1.18, and red precipitate to \$1.3 per lb. Peppermint oil in tins is lower at \$3.15. Hydrastis is 25c. cheaper at \$4.50, and balsam peru is easier at \$1.70. Oregon balsam of fir is cheaper at \$1.60. Short buchu is 10c. lower at \$1.35, and hexamine has declined to 95c. per lb.

London Markets.

ALOES.—Among the arrivals at the Cutler Street drug warehouse are twenty-five kegs of good liver Socotrine aloes, for which 12/ per cwt. is asked. Good Zanzibar liver in skins is also held for 12/, and for fair East India Mocha 9/ per cwt. is wanted.

ANTIMONY.—The tendency is irregular. English refined stands at the relatively high level at 40/ to 42/ per ton for small lots. There is practically no inquiry at the moment for foreign regulus, which is quoted 24/ to 25/ c.i.f. to arrive. The value of crude is about 18/ 10s. to 19/ per ton c.i.f.

BALSAMS.—B.P. Peru is weak at 3s. 9d. to 9s. per lb. for spot. Copaiba is unchanged at about 2s. 9d. per lb. for B.P. Sales of Tolu have been made at 1s. 11d. to 2s., which are about the spot values.

BENZON.—The arrivals at the Cutler Street drug warehouse comprise fifty cases of fair Sumatra seconds and fifty cases of fair thirds.

BISMUTH.—At the current price of 7s. 6d. per lb. arrivals are easily disposed of by the chief importers. A few small lots have come in lately from the Far East.

CADMIUM is firm at about 6s. 3d. per lb., due to restricted offers from the Continent. American advices state that the stocks in the States were appreciably reduced last year due to a more active domestic consumption, although the production for 1920 showed a good increase. The total was over 129,000 lb., against barely 100,000 lb. in the previous year. The output of sulphide was 32,133 lb., against 31,197 lb. respectively. The Anaconda Company now produces considerably larger quantities.

CAMPHOR (REFINED).—English flowers are steady at from 4s. 3d. to 5s. 3d. per lb., according to quantity; for Japanese $2\frac{1}{2}$ -lb. slabs 4s. spot is quoted, and May-July shipment at 3s. 6d. c.i.f. Crude on the spot is 2s. 9d. per lb., and April-May shipment 2s. 3d. c.i.f.

COD-LIVER OIL.—Our Bergen correspondent writes on March 22 that there is little business passing, and the price for medicinal oil is nominal at 105s. to 100s. per barrel c.i.f. London, which figure is, however, below the cost of production. The total result for all the Norwegian cod-fisheries up to date is as follows:

	Catch of cod (millions)	Steam-refined cod-liver oil (hectol.)
To March 19, 1921	17.7	32,034
" " 20 1920	12.9	20,195
" " 22, 1919	8.9	12,123
" " 23, 1918	8.1	8,638
" " 24, 1917	14.2	21,262
" " 18, 1916	19.4	24,238

Prices of London agents range from 95s. up to 110s. per barrel c.i.f. London, according to shipper. Consumers appear to have been partly covering their requirements of late, as it is thought there is little room for a further decline.

FARINA is easier, Japanese No. 1 offering at 22s. 6d. per cwt. and March-May shipment has been sold at 20s. c.i.f. Dutch on the spot is 20s. and March-May shipment 19s. e.i.f.

GALLS.—Chinese are easier, plum-shaped on the spot offering at 105s. and to arrive at 82s. 6d. c.i.f.; ordinary on the spot is 97s. 6d. and to arrive 65s. c.i.f.

GAMBOGE.—Nine cases of fair Siam pipe, part blocky, have arrived.

GLUCOSE.—American water-white for April delivery is 32s. and May 31s. 6d. per cwt., duty paid, landed terms.

LINSEED OIL.—The demand has been rather dull and the tone easier due to the holidays, but crushers are not really pressing sales. Export business has fallen off distinctly. Crushers in Lancashire show more willingness to adapt themselves to the terms ruling at Hull. Consumers seem suspicious of a further decline in the near future, but the position is somewhat influenced by the temporary scarcity of spot seed, although it is understood that the Continental make has been materially increased. London closes easier at 27/ per ton and Hull at 26/, both naked.

MAGNESIUM.—Business is slow, quotations being easier at 3s. 10d. to 4s. per lb., the cheaper offers from the Continent having made buyers more cautious.

MENTHOL is steady, with small sales of Kobayashi-Suzuki at 23s. per lb. on the spot, and for reconditioned goods, i.e. damaged goods which have been put in order and upon which no claim for allowance can be entertained, 19s. is asked.

MERCURY has remained quiet, but terms have been fully maintained at 12/ 10s. to 12/ 15s. per bottle. The Far East is inquiring for fair-sized lots, but no important

business has gone through. The American production for last year amounted, according to official estimates, to 13,070 flasks, to which the Californian mines contributed 9,306 flasks and Texas 3,601 flasks, only limited quantities having been secured in Nevada and Oregon. So far as can be gathered, only about fourteen mines are now actually working. Idle mines are unlikely to be restarted until the price of the product has been restored to a more remunerative level. Operations at the New Idria Mine were some months ago seriously upset by fire troubles whereby the reduction plant was destroyed. Operations, however, were resumed on a partial scale towards the close of last year, but were subsequently entirely suspended.

PLATINUM.—Business is a matter of negotiation, while the tone is firm at 17*l.* per oz. The leading interests, however, are asking up to 20*l.*, according to quantity. Stocks in users' hands are said to be very low. The fact that the market has not been the least affected by the prospect of the reopening of trade with Russia would confirm that stocks are very well held.

SAFFRON.—B.P. qualities are quoted at from 67*s.* 6*d.* to 60*s.* per lb., according to grade. For a short period the primary market showed signs of sagging, but an improvement is anticipated.

SHELLAC is quiet, with spot sellers of TN at from 265*s.* to 290*s.* per cwt.; fine lemon is 390*s.*, fine second Orange 320*s.* to 340*s.*, RL 1 330*s.*, and AC cakey 300*s.* per cwt. Futures are rather dearer, the sales including May delivery at from 195*s.* to 210*s.* per cwt.

TITANIUM, WHITE.—A very material reduction has been made in the price, which now stands at 116*l.* per ton, and we understand that so-called standard quality is now offering at 84*l.* per ton delivered.

TURPENTINE.—Judging from the absence of speculative interest, dealers have evidently no confidence in the stability of the market, in spite of the very heavy fall in the price recorded. Spot and to April closes 2*s.* lower at 48*s.* per cwt.

Seeds and Spices.

ANISE is unchanged at 82*s.* 6*d.* per cwt. for Russian and 76*s.* for Spanish. Some Levant is being offered at 65*s.*

CANARY SEED is quiet at 85*s.* to 90*s.* per quarter for good Morocco and 60*s.* for ordinary. Fair to good medium Spanish is quoted 130*s.* to 160*s.*

CARAWAY SEED is slow of sale at 31*s.* per cwt. for fair Dutch and 23*s.* for North African.

CLOVES are quiet with spot sellers of Zanzibar at from 9½*d.* to 10*d.* per lb. as to quality, and for March-April shipment 8½*d.* c.i.f. is quoted.

CORIANDER SEED is unchanged at 19*s.* per cwt. for 1920 crop Morocco and 9*s.* for wormy.

CUMIN SEED—Further sales of fine Morocco have been made at 20*s.* per cwt.

DILL SEED is quiet at 23*s.* per cwt.

FENNEL SEED is quoted 34*s.* to 37*s.* 6*d.* per cwt., according to quality.

FENUGREEK SEED is steady at 10*s.* to 10*s.* 6*d.* per cwt. for fair Morocco.

GINGER is dull of sale. Common to good common Jamaica is quoted at from 95*s.* to 97*s.* 6*d.*, and medium to good 110*s.* to 120*s.* Washed rough Cochin is 40*s.* for fair, and 35*s.* for wormy. Sierra Leone is 32*s.* 6*d.* in Liverpool and Japanese is 37*s.* 6*d.* on the spot.

LINSEED is quoted 21*s.* to 24*s.* per cwt. for fair to good clean.

MUSTARD SEED.—Good English yellow is offering at 26*s.* to 28*s.* per cwt.

PIMENTO is easier with spot sellers at 2¾*d.* per lb.

Essential Oils.

QUOTATIONS made during the week are, in most cases, nominal, as there has not been much general inquiry since the holidays. Star anise oil is weaker and lemon oil has declined at the source, although bergamot and orange oils seem slightly steadier. Conflicting reports regarding the spot stocks of the latter are current, but cheap sellers appear to be less easy to find. Reports from Italy state that production has been fairly abundant. East

Indian oils are quoted at quite nominal figures. Hand-pressed lime oil is firmly held, but there is not much inquiry for distilled. American peppermint oil shows a further decline at the source.

ANISE (STAR) is easier on the spot, with sellers of "Red Ship" brand at 2*s.* 3*d.* per lb. and March-April shipment at 2*s.* 2*d.* The *Kaga Maru* has brought 100 cases from Hong Kong.

BAY.—West Indian is nominal at 18*s.* per lb. on the spot.

BERGAMOT.—Some dealers make the c.i.f. quotation firmer at from 20*s.* 6*d.* to 23*s.* for 37 to 39 l.a. On the spot, good quality oil is obtainable around 21*s.*

CAMPOR.—The prices of Japanese essential white, it is stated, will have to decline before some importers show much interest. Spot quotations are made at 160*s.* per cwt. and to come forward 120*s.* c.i.f. Brown is quoted at 120*s.* on the spot. Chinese essential white is unchanged at 145*s.* on the spot.

The exports from Japan during December 1920 were 5,490 kin, valued at 2,079 yen. During the twelve months ended December 31 they were as follows:

		1918	1919	1920
Kin	...	1,370,869	1,030,601	2,342,431
Yen	...	268,070	333,785	841,508

CASSIA.—For spot 80 to 85 per cent. c.a. 4*s.* 3*d.* to 4*s.* 4½*d.* is about the value. To come forward is unchanged at 3*s.* 5*d.* c.i.f.

CITRONELLA.—For Ceylon 1*s.* 3½*d.* to 1*s.* 5*d.* per lb. is quoted on the spot, with little demand. Java is unchanged at 3*s.* 1½*d.* to 3*s.* 3*d.* and Burmese at 3*s.*

CLOVE.—English distilled is unchanged with 6*s.* 6*d.* to 7*s.* 6*d.* per lb. as the nominal prices from distillers.

GINGERGRASS.—"Insoluble" is nominal at 14*s.* per lb. for spot, with practically no demand.

LEMON.—At first hands from 3*s.* to 3*s.* 6*d.* represents about the average run of quotations, but some holders have been willing to shade these figures in order to realise. A slight decline in c.i.f. quotations has taken place, and 3*s.* for May-June shipment is about the general figure.

LEMONGRASS is without interest at 5½*d.* per oz. for Cochin on the spot and 5*d.* c.i.f. to arrive.

LIME.—There is not much hand-pressed on the spot, and holders are not inclined to sell at less than 20*s.* per lb. Distilled is weak and nominal at 3*s.* 3*d.*

MANDARIN is still irregularly quoted, but 25*s.* to 30*s.* per lb. is about the spot price, with c.i.f. offers down to 20*s.*

MINT.—Spot prices of Japanese are unchanged at from 4*s.* 1½*d.* to 4*s.* 3*d.* per lb. for Kobayashi-Suzuki, and to arrive at 4*s.* 3*d.* c.i.f.

ORANGE.—Sicilian sweet is steadier, and, as the cheap spot parcels are taken up, a firmer tendency is expected in some quarters. At first hands from 12*s.* 6*d.* to 13*s.* is quoted this week, with some dealers still willing to sell at under. To come forward from 10*s.* 6*d.* to 12*s.* 9*d.* c.i.f. is quoted.

OTTO OF ROSE.—A further delivery from Bulgaria, value 6,300*l.*, has taken place at London. From 60*s.* to 70*s.* per oz. represents the range of quotations for "own distillation."

PATCHOULI is meeting with very little demand at from 65*s.* to 67*s.* 6*d.* per lb.

PEPPERMINT.—Cable advice from New York reports a further decline to \$3.15 per lb. for natural oil. It has been anticipated that further revisions would take place, as primary markets have been unable for some time to attract the interest of the trade. On the spot, quotations are unchanged, and 22*s.* 6*d.* is still about the figure for natural tin oil, although stocks, in other directions, have been reported cleared down to 21*s.*

ROSEMARY.—Spanish is quiet and nominal at from 2*s.* 9*d.* to 3*s.* per lb.

SPEARMINT is quiet on the spot at the unchanged figure of 35*s.* per lb.

SPIKE.—Spanish is weak and nominal at from 4*s.* 9*d.* to 5*s.* for spot.

Pharmaceutical Chemicals.

THERE is very little change to record in this section owing to the holidays. A few products that will be affected by the German Reparation 50 per cent. duty on future imports keep firm. Sulphonals, salicylates, and chloralhydrate are now quoted at slightly advanced figures in some instances. Business continues very much below the usual average.

ACETANILIDE is unchanged at from 1s. 10d. to 2s. per lb. on a quiet market.

AMIDOPYRIN is again slightly higher this week, and now offering at 24s. 6d. to 25s. per lb. and remains firm.

AMMONIUM BROMIDE.—Spot sales have been made at from 1s. 8d. to 1s. 4d., with up to 1s. 5d. quoted.

ASPIRIN.—Prices of the leading makers range from 3s. 3d. to 3s. 6d. per lb., and are distinctly firm.

BARBITONE continues unchanged at from 15s. 6d. to 16s. per lb., but there is not much movement.

BENZALDEHYDE (0.03) is still offering at 4s. 6d. per lb., but the demand is poor.

BENZOIC ACID is unchanged at 2s. 3d. per lb. on a quiet market—values are, however, steadier.

CALCIUM LACTATE is unchanged and quiet at 2s. 9d. to 3s. per lb.

CHLORAL HYDRATE.—After last week's advance is now quoted steady at about 5s. 3d. per lb.

CITRIC ACID offered on spot at from 2s. 2d. to 2s. 3d. per lb., less 5 per cent. for B.P. crystals, but there is little demand.

CREAM OF TARTAR is unchanged with the market distinctly quiet and weak at 130s. per cwt. for B.P. quality from dealers' hands.

CREOSOTE, B.P., is now steady at last week's figure of 4s. 9d. per lb., but the market remains quiet.

CREOSOTE CARBONATE is maintained at 20s. per lb. and appears steady.

GUAIACOL CARBONATE seems steadier this week at 18s. per lb.

HEXAMINE is quoted unchanged and remains quite steady at 6s. 6d. to 6s. 9d. per lb.

HYDROQUINONE is generally offered at about 6s. per lb., and appears steady at that figure.

METHYL SALICYLATE is unchanged and remains steady at about 3s. per lb.

METHYL SULPHONAL is still offering at last week's figures of 18s. to 18s. 6d. per lb.

PARAFORMALDEHYDE is steady with values unchanged at about 4s. per lb.

PARALDEHYDE is much firmer and quoted at 2s. 3d. to 2s. 6d. per lb.

PHENACETIN.—Values are maintained and appear steady at 7s. 9d. to 8s. 3d. per lb.

PHENAZONE is now quoted by dealers at 8s. 6d. to 9s. per lb. There is, however, but little demand.

PHENOLPHTHALEIN remains steady and quiet at 5s. 3d. per lb.

PIPERAZINE is unchanged at 4s. 6d. per oz.; market continues quiet and weak.

POTASSIUM PERMANGANATE.—The market for B.P. crystals has a much better tone and values are steady at 1s. 9d. to 2s. per lb.; a limited inquiry coming through.

POTASSIUM BROMIDE.—As fair-sized quantities have arrived from Germany, the market has sagged somewhat, with owners wishful to realise. Good B.P. crystals or granular can be had at from 1s. to 1s. 1d. per lb., and ton lots at less.

POTASSIUM SULPHOGUAIACOLATE continues to be offered at 9s. to 10s. lb., but is not in demand.

QUININE.—Continental sulphate has been selling from dealers' hands at from 3s. 5d. to 3s. 6d. per oz.

SALICYLATES.—The market appears to be much stronger, and holders of stocks are asking slightly higher figures at which limited business is being done. Salicylic acid, B.P., is moving at from 1s. 2d. to 1s. 3d.; sodium salicylate, B.P., at about 2s. 6d. to 2s. 8d. per lb. and in fair demand.

SALOL continues neglected and may be taken at 3s. 9d. per lb. nominal.

SODIUM BENZOATE is quoted unchanged at 2s. 3d. per lb.

SODIUM BROMIDE is quoted at from 1s. 2d. to 1s. 3d. per lb., with an apparently firmer tendency.

SODIUM DIETHYLBARBITURATE continues to be offered at 24s. 6d. per lb.; market is quiet.

SULPHONAL is firmer at about 19s. 6d. per lb.; sales have been made at this figure.

TANNIC ACID, B.P.—*Leviss* is unchanged at 4s. 9d. to 5s. per lb.; market is quiet.

TARTARIC ACID remains slow of sale, with spot sellers at from 1s. 8d. to 1s. 9d. per lb.

TERPIN HYDRATE is steadier on a quiet market at about 4s. 3d. to 4s. 6d. per lb.

THYMOL is unchanged at 27s. 6d. per lb.

VANILLIN is unchanged with spot sellers at 36s., with makers asking 37s. per lb.

Heavy Chemicals.

March 30.

THERE is but very little alteration recorded this week in the market. Probably owing to the holidays the tone has been exceptionally quiet, but holders of stocks maintain their prices; and, in view of the Reparation Act, which entails a 50 per cent. duty on future imports from Germany, and the practical certainty of the introduction into Parliament at a very early date of the restrictions on the importation of a number of chemical products, prices are not likely to fall below the present level; on the other hand, there appears every possibility of values firming up with a slight general advance.

ACETIC ACID is neglected, but holders continue to quote last week's figures of 45l. to 50l. for 80 per cent. pure and 56l. per ton for glacial. These figures can be taken as nominal.

ALUM continues to be offered on spot, and is also offering from the Continent at about 19l. per ton for lump in casks, but sales are difficult.

ARSENIC is quiet and easier, the current supply of white Cornish being fairly well absorbed. Quotations range from about 48l. to 50l. per ton delivered London or Liverpool.

BLEACHING POWDER is still quiet, material in hardwood casks is offered at about 20l. per ton. Foreign material is also offering.

CARBOLIC ACID is still quoted at 7½d. per lb. for 39° to 40° C. in crystals.

COPPER SULPHATE.—There is a fair demand for export, and the tone is slightly firmer, some makers asking 34l. upward f.o.b. Liverpool for casks, less 5 per cent. for casks, but it is understood that business in one quarter can still be done at 1l. or 2l. below that figure, although the price of the metal has recovered further. The home demand is quiet. The fact that Italy has been again inquiring here for rough bar copper for near shipment would indicate that sulphate-makers in that country are again disposed to make provision for future trade needs.

FORMALDEHYDE is still offering at about 112l. 10s. to 115l. per ton, but parcels could probably be bought at a lower figure.

LEAD ACETATE is unchanged after last week's fall at about 50l. per ton for brown broken and 55l. for white crystals.

LEAD PRODUCTS.—There has been no alteration so far in white lead or red lead from recent quotations, but the undertone is rather firmer. Orange lead was last week also adjusted to a lower level, standing for the home trade at 48l. to 50l. per ton, according to quantity, for "A" quality, and 50l. to 52l. for "AA" quality, less 2½ per cent. discount, delivered to consumers. The whole aspect of the market for white lead and oxides is considered more hopeful, as it is expected that the building trades stand a better chance of going ahead since the adoption of the Government scheme in the matter of diluted labour, which will permit of the employment of 50,000 ex-Service men.

LITHOPONE is still being inquired for, and prices are maintained and appear quite steady. Limited business is being done—30 per cent. Continental red seal about 30l. and green seal about 36l. per ton.

OXALIC ACID continues to be quoted at 10d. per lb. and is steady.

POTASH CAUSTIC, after last week's drop, is now steadily quoted at 40% to 45% per ton for 88 to 92 per cent. material. A few orders are being placed.

POTASH CHLORATE is still neglected. Offers are maintained at 6d. to 6½d. per lb. for crystals and powder.

POTASHES.—Montreal continue neglected at 190% per ton for first and 185% for seconds.

POTASSIUM PERMANGANATE.—Commercial quality is quoted unchanged by makers at 2s. per lb. Some parcels on spot and imported material for future position is quoted at 1s. 8d. to 1s. 9d. per lb.

SAL AMMONIAC is unchanged at 50% per ton for lump imported material.

SALT CAKE is a dead market. Prices are nominal at 7% per ton in bulk, f.o.b., 8% in bags; makers' price is 10% per ton f.o.b. in bulk. Holders of stocks find it impossible to move parcels.

SODA ASH (58 per cent. light alkali) on spot is not in demand. Offers are made at about 9% per ton f.o.b., but not taken up. Makers' price for home trade only is unchanged at 8% 10s. per ton.

SODA CAUSTIC is neglected at 21% 10s. to 22% per ton for spot lots. Makers' price is unchanged at 24% 10s. per ton for home trade only; American 76 per cent. material, prompt shipment, quoted c.i.f. U.K. and Continental ports at about the same figure.

SODA CRYSTALS are quoted unchanged by makers at 7% per ton in bags, carriage paid; small supplies on spot offered at 7% 10s., but are not being taken up.

SODIUM BICARBONATE continues unchanged, with a little business at 10% 10s. per ton for refined in bags, and 10% for mineral-water quality.

SODIUM HYPOSULPHITE.—Photographic quality in kegs is offering at about 25% to 26% per ton; commercial quality about 20% per ton, in bags or casks; values are slightly easier, but the demand continues very poor.

SODIUM NITRATE is still nominal on a neglected market at 21% 10s. per ton for 96 per cent. material f.o.r. Liverpool.

SODIUM PRUSSATE is much steadier at about 8½d. to 9d. per lb. Market is still quiet.

SODIUM SULPHIDE (60 to 62 per cent. solid) continues very weak. Parcels are offering at various figures, but the quality is doubtful. Average figure is about 29% per ton. Makers' price for 60 to 66 per cent. concentrated unchanged at 28% per ton.

SODIUM SULPHITE is offered, but there is no demand. Values remain nominal at about 30% per ton for anhydrous material.

TIN CRYSTALS are still quiet, best material offering at 1s. 7d. and seconds at 1s. 6½d. per lb.

ZINC OXIDE.—The general demand has been quite good, in sharp contrast to the slackness which characterised the market for months past. At any rate, some of the larger makers have secured fair orders on the recent adjustment of prices to a comparatively low level. The decided relaxation of German offers presumably partly accounts for this. Quotations are now thus: White seal, 44% 10s. to 47%; green seal, 42% 10s. to 45%; and red seal, 40% per ton delivered free on rail.

COAL-TAR PRODUCTS AND INTERMEDIATES.—During the few days of business of the holiday week the market has remained neglected, and it is difficult to trace any sales. Most holders are generally quoting all their products unchanged from last week's figures.

Hamburg Drug and Chemical Market Report.

THE market report, dated March 11, of a leading Hamburg firm of drug-importers begins with the statement that, although business was quiet during the preceding period, it never stagnated; buyers, it is true, did not venture to purchase large amounts, and transactions were intended to meet actual current requirements. Since the prices quoted on the Hamburg market are in some instances below the average world's prices, it was impossible to prevent goods from being exported. Fine chemicals were particularly in request by foreign buyers, with the result that prices have generally advanced for this class of goods. Now that speculators are less inclined to concern themselves with drugs it was possible to avoid a sudden advance in prices, and the London Conference also, with its consequences, has

had no effect on speculative purchases. It is impossible at present to foretell the course of events, since the further development of the political situation cannot be foreseen.

AMMONIUM CARBONATE has declined considerably. Powder is m.4.85 to m.4.75. Lump is now scarce, and only obtainable for export, at m.8.50. Powder for export is quoted m.8.50, and in larger amounts even lower.

ANISE.—Spot stocks of Spanish have been almost entirely cleared. From a shipment expected to arrive in March, fine Alicante is offered at m.18 per kilo., free of duty, gross for net; for re-export, m.17.50.

ARECA.—Whole sound 4s m.13 and fine powder m.20 per kilo.

BALSAM PERU.—It is assumed that of the direct shipments received, about 25 to 30 cases have not yet been sold, which is having a depressing effect on the market. Commercial quality, meeting all requirements of the Ph.G.V., is offered at m.205 for orders of 25 to 50 kilos., or broken bulk at m.220. Artificial is likely to be neglected in view of the lower prices for the genuine balsam.

BALSAM TOLU.—There are considerable stocks now available of direct imports. For orders of 3 to 5 cases it is offered at m.68, for orders of single cases at m.70 per kilo. A balsam prepared from this shipment, meeting all requirements of the Ph.G.V., is offered at m.77.50. For export, an additional charge of 10 per cent. is made.

BEARBERRY LEAVES (*Uva-ursi*).—Entire leaves are m.5.50 to m.6; cut, m.6.75 per kilo.

BOLD LEAVES.—Fine green, in original cases, is m.25, broken bulk m.28 to m.30 per kilo.

BUCHU.—Very fine green leaves are offered at m.500 per kilo, for orders of 500 kilos., m.525 for orders of 25 kilos., and m.550 for smaller amounts.

CALABAR BEANS.—A consignment received is offered at m.12.50 to m.11.50 per kilo., according to quantity.

CAMPOR.—A number of direct deliveries makes it possible to offer original 2½-lb. Japanese slabs in cases at m.115, for orders of 5 cases at m.113; broken bulk at m.125 per kilo. These prices deserve careful attention. It is now also possible to offer a few cases of camphor in cubes of 1 gram each at m.178 per kilo., in original cases only.

CANTHARIDES are in demand, and a recent delivery has been cleared, with the exception of about 25 kilos., which is offered at m.255 per kilo.

CASCARA SAGRADA is obtainable in single bales at m.25 to m.26 per kilo. Future deliveries are still quoted too high.

CASCARILLA.—Stocks are now almost depleted, except for a few hundred kilos., offered at m.76 per kilo. According to information received quill is now only obtainable with very great difficulty, and at high prices. Siftings are offered at m.50, and for quantities at m.45.

CASSIA FISTULA.—Some of the recent deliveries were of such inferior quality that they had to be refused, being old and useless. It is now possible to obtain a good natural juicy drug, which is offered at m.16.50 for orders of 5 to 10 crates; single crates, m.17.50 per kilo.

CASTOR OIL.—Pharmaceutical is offered at m.15.75 to m.15 per kilo., in tins and cases, according to quantity. First pressing is m.15 per kilo., duty paid, for lots of 5 to 10 barrels, ex warehouse Hamburg.

CITRIC ACID.—Lead-free crystals in large quantities are quoted at m.55 net exclusive; broken bulk at m.58. For export, m.62.50 and m.65 per kilo.

CLOVE OIL.—Ph.G.V. is m.175 to m.180 per kilo.

COCULUS INDICUS.—Orders of 500 kilos. can be had at m.13.50, of 100 kilos. at m.14.75 per kilo.

CONDURANGO, for large orders, is m.8.50; for orders of 500 kilos., m.9; orders of 100 kilos., m.10 per kilo. Cut bark of fine quality is quoted at m.13.50 to m.14, according to quantity; and powder at m.16 per kilo.

CREAM OF TARTAR is offered at m.26 to m.27.50 per kilo. net exclusive, according to quantity, for 99 to 100 per cent.

ELEMI.—Fine soft gum on the spot is m.32.50 to m.34 per kilo.

EUCALYPTUS OIL (*Globulus*).—A supply is offered at the very low price of m.85 per kilo., and for quantity even at less.

GLYCERIN.—Double-distilled, 28° Baumé, Ph.G.V., delivery in April, is offered at m.27; for large orders at m.26 per kilo.

GRAINS OF PARADISE.—Small amounts are still available from the last shipment received, at m.35 per kilo. A delivery expected to arrive in April is offered at m.25 for orders of 50 to 100 kilos.

GRINDELIA ROBUSTA.—A delivery expected in March is offered at m.35 per kilo.

IPECACUANHA.—Abundant supplies of Rio have resulted in reducing quotations to m.245 for orders of 100 kilos., m.250 for 50 kilos., and m.275 for smaller amounts. Cut Rio is m.325., fine powder m.340. Cartagena is obtainable for m.235 per kilo.

JALAP.—Druggists' quality is m.45 to m.48 per kilo. A 14 to 15 per cent. test deserves attention at m.70 per kilo.

JUNIPER BERRIES.—Finest Italian sifted berries are obtainable at m.425 per 100 kilos, gross for net.

KAMALA.—Since the first supplies were available some months ago interest has declined. A sifted, about 18 per cent. cleaned, drug is offered at m.270 to m.260 per kilo., according to quantity.

LOBELIA is cheaper, and a delivery to arrive is offered at m.152.50 for orders of 100 kilos., m.157.50 for 50 kilos., and m.170 for broken bulk.

LYCOPODIUM (ARTIFICIAL), capable of use for technical and pharmaceutical purposes in exactly the same way as the genuine product. This artificial lycopodium is particularly adapted for powdering moulds used in machinery and for casting metals, for which purpose it successfully replaces the genuine.

MENTHOL has declined. Original cases of Kobayashi-Suzuki are offered at m.735, single tins m.785 per kilo., March arrivals at m.685, and March to April delivery m.620 for orders of 3 to 5 cases.

QUILLAIA.—Prices for cut have now reached a figure at which it is quite impossible to import even whole bark. This is the result of unloading by speculators compelled to realise even at great loss, and is reflected in the following quotations. Orders of 1,000 kilos., m.10.25; 500 kilos., m.10.75; 100 kilos., m.11, gross for net per kilo.

St. IGNATIUS BEANS are very cheap at m.25 to m.22.50 per kilo., gross for net, and deserve attention. Firm orders for large amounts might be filled at even lower figures.

SARSAPARILLA.—The available stocks of Vera Cruz have been cleared; however, a new shipment is expected to arrive in eight to ten days, of which original bales are offered at m.62.50 per kilo. Honduras, of which a few bales of the well-known Lion brand, and in serots, are available, is obtainable for m.97.50, and for delivery in about four weeks at m.95 per kilo.

SENEGA.—Western on the spot is quoted at m.140 for orders of 50 to 100 kilos., and from a shipment expected to arrive shortly at m.127.50 per kilo.

SERPENTARY.—After being unobtainable for several years, a delivery of this root, so much in demand, is expected shortly; it is offered at m.575 for small amounts, and m.550 per 100 kilos, for orders of 50 to 100 kilos.

STRAMONIUM LEAVES of 1920 crop are offered at m.20 to m.21 per kilo., gross for net.

STROPHANTHUS.—Kombé is offered in original bags at m.32.50, and broken bulk at m.35 per kilo.

TARTARIC ACID seems to have now reached its lowest level, and is therefore deserving attention. Lead-free crystals are quoted m.38 to m.39, powder m.33.75, m.34.50, and m.40, according to quantity. For export, crystals are offered at m.42 and powder at m.39 per kilo. net.

VANILLIN.—Finest pure (100 per cent.) for prompt delivery is offered at m.900 for orders of 5 to 10 kilos., and for export at m.885 per kilo.

YOHIMBEH BARK.—Owing to abundant supplies the price has declined to m.12 to m.14, according to quantity.

German Export Dues and Licences.

THE Association of British Chambers of Commerce has received the following letter from the British Chamber of Commerce at Cologne: This Chamber has been in correspondence with the local German Chamber of Commerce regarding offers of German goods to British merchants, this Chamber being of opinion that in respect of offers made by German firms abroad, in which no mention is made of export licence, British merchants placing orders on the basis of such quotations are entitled to assume that the same will be carried out without difficulty, and without extra charges for export taxes, dues, etc. The local German Chamber of Commerce, however, state that in their opinion foreign merchants abroad are not entitled to assume that offers of goods made to them by German manufacturers or merchants include export licence, taxes, or dues unless expressly stated, and that, moreover, should an order be given against a quotation, in which no mention of export licence is made, the foreign merchants have no redress on account of non-delivery, as the refusal of an export licence by the licensing authorities would be a case of *force majeure*. Furthermore, the German Chamber of Commerce is of opinion that, even when quotations state the prices include all export dues and taxes, the foreign merchants have no right to assume that an export licence has been granted, nor have they any redress in case the German firm quoting informs them later that an export licence is unobtainable. This opinion of the German Chamber of Commerce was based on the examination of a number of influential local merchants. This Chamber would, therefore, like you to point out to persons interested in business with Germany that only offers of goods in which it is expressly stated

that the export taxes and dues are included, and that permission for export is already at hand, should be considered worthy of attention.

Drug Brokerage Increased.

OWING to the inadequate percentage of brokerage for selling produce generally in relation to the increased rents, working costs, etc., the London produce brokers have agreed that it is necessary to increase their selling brokerage on the spot from 1 per cent. to $\frac{1}{2}$ per cent., as from May 2, on the products named below:

Aconite root.	Cuscuta root.	Musk seed.
Aloes.	Cuttlefish bone.	Nux vomica.
Ambergris.	Digitale leaves.	Orange peel.
Anatto seeds.	Dragon's blood.	Oreabella weed.
Araroba.	Dried turtle.	Orris root.
Areca nuts.	Ergot of rye.	Rapain.
Argol.	Galangal root.	Patchouli leaves.
Attar of roses.	Gamboge.	Pereira brava.
Balsams.	Gentian root.	Quassia.
Beeswax.	Guava.	Quince seed.
Belladonna.	Gum ammoniacum.	Rhatany root.
Buchu leaves.	Gum asafetida.	Rhubarb.
Calumba.	Gum benzoin.	Safflower.
Canella alba.	Gum elemi.	Saffron.
Cantharides.	Gum euphorbium.	Sandalwood.
Cardamoms.	Gum guaiacum.	Sarsaparilla.
Cascarara sagra.	Gum kino.	Scammony root.
Cascarilla.	Gum mastic.	Scopolia root.
Cashew nuts.	Gum myrrh.	Senega.
Cassia fistula.	Gum olibanum.	Senna.
Castor oil.	Gum tragacanth.	Soy.
Cevadilla seed.	(Karaya).	Squill.
Chamomiles.	Gurgun balsam.	Strophanthus.
Chiretta.	Henbane.	Tamarinds.
Civet.	Henna.	Tonquin beans.
Coca leaves.	Honey.	Turmeric.
Cocaine.	Jalap.	Valerian.
Cocculus Indicus.	Kamala.	Vanilla.
Cochineal.	Kola.	Vermilion.
Colocyath.	Liquorice root.	Zedoary root.
Condurango bark.	Lycopodium.	and other *small
Croton seeds.	Musk.	drugs.
Cubebs.		

Chemical Prices in Poland.

THAT a depreciated currency leads to fantastic sums for everything, and, in fact, renders money of no practical value for comparisons of the cost of even everyday articles, is abundantly illustrated by the plight of Poland. The leading pharmaceutical journal, "Wiadomosci Farmaceutyczne," which consists of twelve sheets, 9 by 12 in., and appears twice monthly, has been compelled to advance the price for a single number to 30 marks, and the subscription price for a quarter is now 160 Polish marks (one Polish mark is nominally = 1s.; the present rate of exchange is, however, about 3,000 Polish marks to the pound). The cost of producing a single number of the journal has increased from 7 marks at the beginning of last year to 21 marks at the close of the year, and since has further risen every month; during the month of March the cost of printing advanced by 26 per cent. In this connection it is interesting to note the quotations for drugs and pharmaceutical chemicals on the Warsaw market, of which the following are a few examples. Prices are quoted per kilo. in Polish marks:

Acetanilide	720 to 975
Balsam of Peru	3,610 to 4,800
Boric acid	290 to 320
Chamomiles	360 to 380
Citric acid	1,000 to 1,500
Cocaine hydrochloride	82,000 to 110,000
Distilled water	6
Extract of ergot	30,000
Glycerin	520 to 550
Linseed	95
Lycopodium	1,000 to 1,200
Pepsin	1,200 to 1,500
Quinine sulphate	17,000 to 22,000
Santonin (1 gram)	175
Senega	3,050 to 3,600
Uva-ursi	60

DR. KEIZO TAMBA, Emeritus Professor of the Imperial University, Tokyo, left Peking on December 2. His business is understood to be in connection with the starting of a pharmaceutical enterprise in China conjointly by Japanese and Chinese capitalists.

BAN ON EXPORTS REMOVED.—An order of the Swiss departments of economics and of food repeals a large number of prohibitions of export, and, among others, no permissions to export will be required for saccharin, potassium permanganate, methyl alcohol, denaturated ethyl alcohol, and pyroxylin.

Poland's Chemical Industry.

THE chemical industry in that part of Poland which was known prior to the war as Prussian Poland gives signs of a sound and remarkable development. Its productivity has been recently extended in the field of chemical by-products of alcohol. The distilleries of Posen and Pomerania have been united in a big concern, "Akwawit Rectification of Alcohol and Chemical Factory." The head office of this new company is in Poznan (Posen). Considering the natural wealth of this province of Poland as regards alcohol, high hopes are entertained that the exports of its by-products will contribute considerably to the improvement of the economic position of the country in the international market. The company has acquired all the distilleries situated in Poland belonging to the firms, C. A. F. Kahlbaum, of Berlin, and Breslauer Distillery, of the Charlottenburg Co. The subscribed capital of the "Akwawit" company amounts to 20 million marks. The chief subscribers are the Land Bank of Posen (2,500,000 marks), the Kwilecki Potocki & Co. Bank (2,300,000 marks), the Co-operative Union Bank (1,000,000 marks), the Commercial Bank of Posen (11,700,000 marks), and C. A. F. Kahlbaum (2,000,000 marks). The Board of Control consists of eighteen members; among them there are eight landowners and five bank directors. A few more facts pointing to the development of the chemical industry deserve attention. A new chemical factory has been founded in Głowno, near Posen, known as the "Posen Chemical Works of K. Chmielewski." Another big concern, founded in May 1920, known as the "Luban Potato By-products Factory," has published a report which shows that up to September 30, 1920, its net profits amounted to 3,719,423 marks. This company has already acquired the starch factory in Torun (Thorn) which belonged to the German concern known as "Deutsche Bruder Unitat in Herrnbut," and it proposes to buy out other German factories situated in Polish territory, especially the branches of the famous German firm, C. A. Kohlman & Co., of Frankfurt-am-Oder. The Luban branch of this firm is already run by the Polish "Luban Potato By-Products Factory," which has acquired the rights of tenancy. These Luban factories, producing potato meal, starch, dextrin, soluble starch, and potato pulp, constitute the biggest concern of the kind in Poland, and are capable of working daily twenty to twenty-two waggons of potatoes. Owing to the requisition of potatoes by the Food Ministry the factories have been compelled to work only at short time. The greater part of the produced potato meal has been exported to France, England, and Germany; the rest has been used for home consumption. The lack of transports has made the exports very difficult. The exports for France have been transported by trains supplied by the French Mission. The production of dextrin was possible only on a small scale, and it has been consumed chiefly by the textile industry in Lodz and Bielsk. Owing to the devaluation of Polish money high prices of raw materials, and rising costs of transport, the company proposes to raise its capital to 20 million marks. Similarly the wholesale druggist factory in Posen has increased its capital to 15 million marks. The Pharmaceutical Products Factory, "Barcikowski & Co.," shows a net profit for the year 1919 to 1920 of 987,000 marks. Out of this amount 400,000 marks have been devoted to social purposes. This factory has considerably increased its activity through opening branches in Gdansk (Danzig) and Warsaw. Its capital has been raised to 15 million marks. The relation between imports and exports of goods into former Prussian Poland is as follows: For the period of July 1, 1919, to January 1, 1920, the imports of chemical products into Poland amounted to 9 million marks, and for the period from January 1, 1920, to October 1, 1920, to 87 million marks. The exports of similar products from Poland for the period from September 1, 1919, to January 1, 1920, amounted to 3 million marks, and from January 1, 1920, to October 1, 1920, to only 609,000 marks.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Window-displays.

SIR,—There is no doubt from a pharmaceutical point of view that "An Irish Apothecary's" idea of a dignified window-display of drug specimens and specie jars would certainly be more professional than a modern windowful of toilet and other articles, and one which most of us in our hearts would probably like to show on our own premises. But unfortunately we are in business primarily from a bread-and-butter consideration, and it is no use disguising the fact that a pharmacist who could afford such a window-display in these days is a *rara avis*. I am not, of course, aware if "An Irish Apothecary" has had a practical insight into English pharmacy and particularly the suburban retail; but if he has, he must know that up to the passing of the National Insurance Act a *bona-fide* prescription was almost an event in many chemists' shops, and then it was seldom a local script, but was presented by some customer who had been to see a West-End doctor, the average medical man taking good care not to send his patients to the pharmacist. So that to save himself from probable bankruptcy the retail proprietor was forced to adapt himself to the conditions, and to take up the sale of such articles as would pay his rent; to effect these sales his old window had to go, and with the advent of company pharmacy he was compelled to generalise his window-displays more and more. The National Insurance Act was claimed, when promoted, to separate prescribing from dispensing, and so it has for National Health Insurance purposes, and many pharmacists who previously did no dispensing trade now do a large amount under the Act, but I hardly think, in view of the tariff rates, that "An Irish Apothecary" would advise a pharmacist cutting out his present displays to attract panel dispensing. Besides separating prescribing and dispensing, the National Insurance Act, from a doctor's standpoint, has also separated the profitable from the unprofitable, or perhaps I should rather say the competitive cash patients from the State-guaranteed ones, so that he is enabled to attend to the former first and secure the supply of their medicines in his own dispensary, and then to scribble down "mist. tussis" or "mist. alba" for his panel people and turn them over to the professional pharmacist, who kindly supplies the drugs at cost price. I am afraid we have a long road to travel before we get complete separation of the two professions, and until that time we shall have to stick to our modern windows to hold our own with trade competitors; whether the Pharmaceutical Society, now that its hands are freed from mercenary interests, will turn its energies to this its legitimate aim remains to be seen, but I hope for the best. We have heard a great deal about efficiency lately, but it seems to me that a system that employs highly skilled and qualified men in the distribution of drugs packed by the gross in wholesale houses is far from being

EFFICIENT (26/3).

"Professional" Pharmacy.

SIR,—The Association which he represents is unfortunate in having such an illogical spokesman as Mr. H. C. Richards. His definition of "professional pharmacy," as I understand it, is pharmacy as practised in doctors' surgeries. He argues that all apothecaries are now fully qualified medical men, and that therefore apothecaries' assistants are qualified to dispense for them and for them alone. Professional pharmacy is the debased form of our craft which a correspondent describes in the *C. & D.*, March 12, p. 78, under the heading "Dispensing Doctors." If this is "professional pharmacy," it is difficult to understand why a special certificate is required to "practise" it. It is notorious that although all registered medical practitioners are qualified under the Pharmacy Acts, and

may sell poisons "till their heart's content," most of them know little or nothing of practical pharmacy. Only the other day "The Hospital" had an article deploring the "lost art" of prescribing. It is, therefore, men who know little of prescribing and less about "making up" prescriptions whom the apothecaries' assistant is qualified to assist in the compounding of medicines! It really is something to be proud of, and it is little wonder that Mr. H. C. Richards looks down on the statutorily qualified seller and dispenser of poisons under the Pharmacy Acts. It is when he lightly asserts that the pharmacist is out of place in a public institution that Mr. Richards really displays his full lack of a sense of proportion. A large hospital deals with an immense amount of valuable drugs in the course of the year, and many of these are "dangerous drugs" which under recent legislation will require the most elaborate precautions for their storage and distribution. The only persons statutorily qualified to handle and distribute these dangerous drugs are pharmaceutical chemists and chemists and druggists, yet Mr. Richards says that they are out of place in public institutions. If Mr. Richards and his members will continue "to practise" only "professional pharmacy" in doctors' surgeries there should be no points of conflict with the Pharmaceutical Society, but they must leave the "open shop" and the hospital pharmacy to qualified men and women.

Yours sincerely,

A PHARMACEUTICAL CHEMIST (21/3).

Iodine Internally.

SIR,—The notes in Mr. Gilmour's interesting paper, "A Plea for Uniformity in Dispensing" (*C. & D.*, March 26, p. 82), on heroic doses of iodide of potassium are of great interest. The administration of iodide of potassium in the huge doses indicated is a survival of the old Aix la Chapelle treatment for late specific lesions. Modern physicians realise that it is quite impossible for such quantities of the drug to be absorbed by the human organism, and it is being increasingly recognised that free iodine—which is, of course, the remedy which it is desired to exhibit—is less irritating than its potassium or sodium compounds in large doses. Iodide of potassium in doses of 3 to 5 grains has produced unpleasant and even alarming symptoms in my practice. Ten grains three times a day for less than a week has produced a violent catarrh, with profuse discharge from the eyes and nose, swelling of the eyelids, and a pustular eruption. In one case, where the drug had been persisted in for a week in a young woman suffering from syphilis, it was followed by marked wasting of the breasts. In view of the uncertainty and expense of the potassium salt, I have for some years been administering the tincture of iodine instead. This is not nearly so irritating as those who have not used it might imagine, and I find 5 minims three times a day borne with fewer unpleasant effects and with far quicker therapeutic results than the exhibition of iodides. It has been my fortune—or misfortune—to have to deal with a large number of cases of iodine poisoning, and my experience has shown that recovery has taken place in all cases where less than an ounce of the B.P. tincture was taken.

Yours sincerely,

INDIAN PHYSICIAN (26/3).

Dispensing Doctors.

SIR,—"X-rayser II.'s" remarks on the conditions of dispensing in doctors' surgeries must be true of many localities. Some years ago I had in the course of business considerable insight into different surgeries, and the way in which they were kept was sufficient condemnation of the whole system. X-rayser II. speaks of apparatus; one man I knew had none, not a measure or a pair of scales in the place; he relied mostly on concentrated stock mixtures bought from the wholesaler, and the requisite amount was filled into the patient's bottle by the graduations; if by chance he was obliged to make up a special mixture it was done by guesswork, the solids estimated on a piece of paper and the liquids dropped in. And then again consider the places set apart for the dispensary; even where a dispenser is employed, the dispensing department is generally some corner partitioned off with match-

boarding and just room enough for the dispenser to get inside, the drugs being kept on one or two shelves loosely nailed up, while such luxuries as water supply, gas burner, sink, etc., are generally conspicuous by their absence. I should think that if the inspectors under the Sale of Food and Drugs Acts or Weights and Measures Act could turn their attention to some of these places they would find enough work to occupy them for a considerable time. After all, a dispensary where medicine is supplied to the public is in reality as much an open shop as a pharmacy, and I should imagine it should equally come under these Acts.

Yours faithfully,

INSPECTED (19/9).

Parochialism in Pharmacy.

SIR,—I ask for the courtesy of your correspondence columns to emphasise the remarkable situation which will apparently arise when the "appointed day" arrives for the establishment of a separate Government for Ulster. The six counties will, it seems, be outside the jurisdiction of the Pharmaceutical Society of Ireland, and unless something is done in the short period which is to elapse before the new Government is instituted, the practice of pharmacy in the North of Ireland will be "in the air." The position which has arisen should bring home to pharmacists the extraordinary parochialism which characterises their profession, and their profession alone, throughout the British Dominions. A doctor or bachelor of medicine is free to practise as such from John O'Groats to Land's End, from Cape Clear to Mizzen Head, or, indeed, with trifling local restrictions, from London to Sydney, or Cairo to Hong-Kong. It matters not a jot whether he was capped at Edinburgh, Oxford, Dublin, or Bristol, and similarly in my profession a "call to the Bar" in London qualifies a barrister for admission to practise in any court throughout the Empire. For actual admission to the Irish Bar three terms have to be kept in the King's Inns at Dublin by English barristers, and similar formalities must be observed for admission as an advocate in Scotland; but, as I have said, English barristers are permitted to plead in every court where runs the writ of our Sovereign Lord the King. In the Church the same universality prevails, and a testimonial in divinity from Trinity College, Dublin, is as acceptable to an English bishop as the certificate of one of his own colleges; but in pharmacy the accomplished practitioner who has passed the severe test of the Major examination in Bloomsbury Square finds himself totally unqualified if he crosses St. George's Channel. Let him sell a pennyworth of oxalic acid in Dublin, and he brings himself within "the long arm of the law." Surely this is a matter which only requires to be represented to be remedied. Acts of Parliament are not passed nowadays for the benefit of any trade or calling, or for granting monopolies to this or that corporation, but for the protection of the public. If the interests of the public are sufficiently protected by granting to doctors the privilege of practising anywhere throughout the Empire, chemists should insist on similar privileges. The present situation in Ireland, where apparently the pharmaceutical profession has been entirely overlooked in the new Legislature, should serve to bring this anomaly to public notice. Elaborate arrangements have been made for carrying on the courts of justice, and the six counties are to have a Lord Chief Justice and perhaps a Lord Chancellor, but there will be, it seems, no legal restrictions on the sale of poisons, and apparently the land of the Orangemen will become the Mecca of the quack and the nostrum-monger.

Yours sincerely,

BARRISTER-AT-LAW (24/3).

Business Side of Pharmacy.

SIR,—Your correspondent "Café Noir" (*C. & D.*, March 26, p. 95) brings into question the percentage which wages bear to turnover. I think it would be a great help to a good many readers if brother pharmacists would publish their wage percentage. With a turnover of 11,000l. mine approximate to 10 per cent. Will other readers let us know what is the general rate?

Yours faithfully,

NORTHERNER (28/3).

Legal Queries.

Jacobus (23/3).—A *bona-fide* use of the title "wholesale chemists" is not an infringement of the Pharmacy Acts. If, however, the title is employed in connection with a retail business, and the owner is not a registered chemist, an offence under the Pharmacy Act is created.

M. H. G. (24/3).—Section 16 of the Pharmacy Act, 1868, permits "any executor, administrator, or trustee" of a deceased pharmaceutical chemist or chemist and druggist to carry on the business so long as it is conducted by a qualified chemist. The Poisons and Pharmacy Act, 1908, requires also that the certificate of qualification of the qualified person managing the business should be conspicuously exhibited in the premises. It would not be necessary to change the trading title, but the business would probably require registering under the Registration of Business Names Act, 1916.

F. W. T. (21/3) is tenant of a combined shop and house at an annual rent of 32*l.* He pays rates, and the landlord does all repairs. He has received from his landlord a notice increasing the rent by 35 per cent., and in addition by 25 per cent. in respect of repairs. Are the increases enforceable? [The landlord has increased the rent upon the assumption that the premises are business premises, whereas for the purposes of the Act they are a dwelling-house. The 25 per cent. increase is in order; but the 35 per cent. increase must be reduced to 5 per cent., so that the maximum total increase which "F. W. T." can be made to pay at present is 30 per cent. of the standard rent of 32*l.*, that is to say, an increase of 9*l.* 12*s.* After July 2 next a further increase of 10 per cent. will be allowed.]

Raison (16/3) is the owner of a house which he occupies as his residence. To enable him to buy this house he borrowed 500*l.* from a relative, and this is secured by a promissory note, not by any charge on the house. His taxable income after abatements and allowances of every kind is 300*l.* He asks if he is liable to pay 6*s.* in the \pounds on the annual value of the house, and, if not, what steps he should take to secure any rebate to which he is entitled. —[The only question that arises here is as to the interest, if any, paid by "Raison" on the 500*l.* If no interest is paid, there is no rebate to be made from income. If interest is paid, a rebate may be obtained by entering the loan as a charge on the house in the appropriate column of the income-tax return. The surveyor usually allows the interest as a deduction from the annual taxable value of the house in this way. If the surveyor does not allow this, "Raison" should deduct the tax at 6*s.* in the \pounds on the interest before paying it over to the lender, and then the money so deducted will be credited by the tax officials as paid by the lender of the 500*l.*]

Town Tenant (21/3).—A recently bought the stock, fittings, and goodwill of a business from B. and entered into possession of premises let by C to B under a half-yearly agreement, which prohibited the sub-letting of the premises without C's consent in writing. C died some while ago, and at the time of the sale of the business there was a dispute as to the ownership of the premises, and the necessary consent to a transfer could not be obtained. Ultimately the premises became the property of C's daughter, who refuses to recognise A as a tenant, and has given B a half-year's notice to quit. Will A have to give up possession of the premises when the notice expires, and, if so, has he a claim for compensation against B? [We gather that the premises are used for business purposes only, so that even if they come within the provisions of the Increase of Rent Act, 1920 the protection afforded by that Act will cease in June next. We think, therefore, that A must vacate the premises when the notice expires, and we do not consider that he has any claim against B for compensation since there was apparently no misrepresentation as to the tenancy of the premises.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Mon (16/3).—BATTERY SALT.—This consists of sodium acid sulphate.

Felspar (17/3).—The sample bought as starch consists in the main of potato starch, with a little maize starch. It yields, however, 20.6 per cent. of ash, which is insoluble in water and acid, this part of the powder consisting probably of a white earth.

S. F. (24/3).—BOOKS ON THE MANUFACTURE OF PERFUMERY.—"Pharmaceutical Formulas" (office of *C. & D.*, 15*s.*) has a good chapter on the subject. Other works are Askinson's "Perfumes and their Preparations" (Spon, 12*s.* 6*d.*) and Durville's "Nouveau Guide du Parfumeur" (Desforges, Paris, 5*fr.*).

W. G. (23/3).—EUSOL.—Several methods of preparing eusol are given in *The Chemist and Druggist Diary*, 1918. One process is to shake 12.5 grams of bleaching powder with a litre of water, then add 12.5 grams of powdered boric acid, and shake again. Allow to stand for some hours, preferably overnight, then filter off, and the clear solution is ready for use.

Phenacetin (21/3).—DULL FINISH ON BRASS, technically known as "dead-dipping," is obtained with the following bath:

Saturated solution of potas-	
sium bichromate	1 part
Hydrochloric acid	2 parts

Leave the metal in this bath for some hours; wash with water and, when dry, coat with lacquer. As the composition of brass varies, experiments will have to be made until the proper appearance is obtained on the surface of the metal.

P. & Co. (24/3).—PRINTING INK.—See *C. & D.*, January 22, p. 76.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 15, 1871.

The Study of Botany.

Mr. Wm. Southall writes engagingly on the proper way of studying botany. He concludes the article as follows:

If you want to learn botany, do not begin by studying an advanced work on the subject, and by cramming yourself with names and details that, if you have a good memory, may enable you to pass your examination, but which, unless you have struck the keynote of your work, will very probably be soon afterwards forgotten, or reduced to the state of jumble portrayed in the paper. Instead of this, provide yourself with a pocket lens and a sharp pen-knife; take an early walk into the country, and bring back a few common flowers, pulling them up by the roots. A buttercup will do excellently well to begin with, as it is a representative of the first Natural Order, and is a good plant to work upon. Examine it carefully by the aid of a simple elementary work, such as Oliver's "Lessons in Botany"—a cheap book—and by the time you have got through a few common plants and a few chapters of your book you will begin to take an interest in your subject, and will be glad to turn to the pages of "Bentley" for further and necessary knowledge—a book which, if taken up first-hand, is "worse than Greek" to many. By pursuing this course you will be learning at the same time both systematic and structural botany, and, as far as the mere examination goes, you will gladden the heart of your examiner by showing him that you practically understand your subject, and that, even if your knowledge be limited, it is sound. Beyond this, however, and what is of far more importance, you will obtain some real insight into botany, which will not be merely ornamental, but will be of direct personal utility as long as you follow the pharmaceutical profession.

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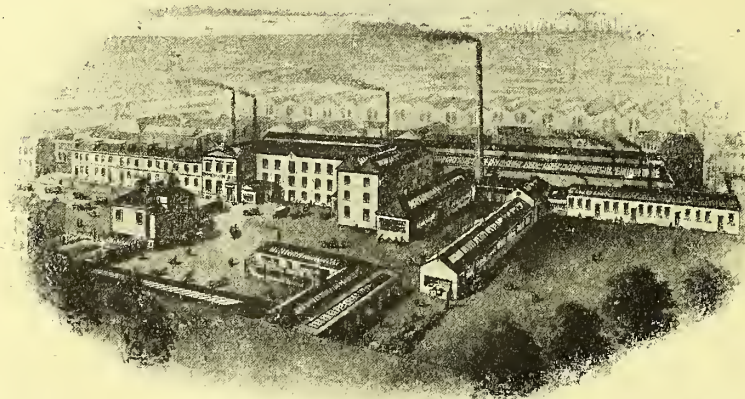
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Agent: A. C. Henry, 19 St. Dunstan's Hill, London, E.C. 3.

OYEZ ! OYEZ !! OYEZ !!!

SPRING IS NIGH.

Provide yourself with a stock of

SULPHUR TABLETS

Palatable, smooth to the tongue, delightfully
flavoured and fragrant.

Contain

SULPHUR 4 gr., CREAM of TARTAR 1 gr.,
SUGAR 10 gr.

7 lb. @ 1/11 per lb.

112 lb. @ 1/9 per lb.

(net in 7-lb. boxes).

HOUGH, HOSEASON & CO.,
LIMITED

Wholesale and Manufacturing Chemists,

Sun Buildings, Bridge Street, Manchester.

Works : HOLLAND STREET, PENDLETON.

UNG. ZINCI CO.

(H., H. & CO.)

2/4 lb.

205/- cwt.

SUBJECT.

If you want an ointment

- that sells well and yields a good profit
- that people will come again for
- that is emollient, soothing, healing, bactericidal and protective

You cannot do better than reserve a prominent place in
"Your Pharmacy" for this very popular ointment.

Carriage Paid on orders £5 and upwards in the U.K.

WE OFFER

PARALDEHYDE, U.S.P.

also

ACID PYROGALLIC ACID TANNIC
TRIONAL
SULPHONAL ACID GALLIC
ALBUMIN TANNATE
CAMPHOR MONOBROMATE
REDUCED IRON

FOR PROMPT SHIPMENT

WHOLESALE QUANTITIES ONLY

MALLINCKRODT CHEMICAL WORKS
OF CANADA, LIMITED.

Cable Address: "MALLCHEM MONTREAL."

WE ARE BUYERS AND SELLERS OF

TARTARIC ACID
CREAM OF TARTAR
CITRIC ACID

J. KHAMBATA & CO.3 & 4 Ct. Winchester St.,
LONDON, E.C.2.

Telephone: London Wall 9306.

Telegrams:

Foreign—"Jehangir London."

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TOMODA & COMPANY,**WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.**

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny), Singapore.

FACTORY: Hiranuma, Yokohama.

LABORATORY: Marunouchi, Tokyo.

THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

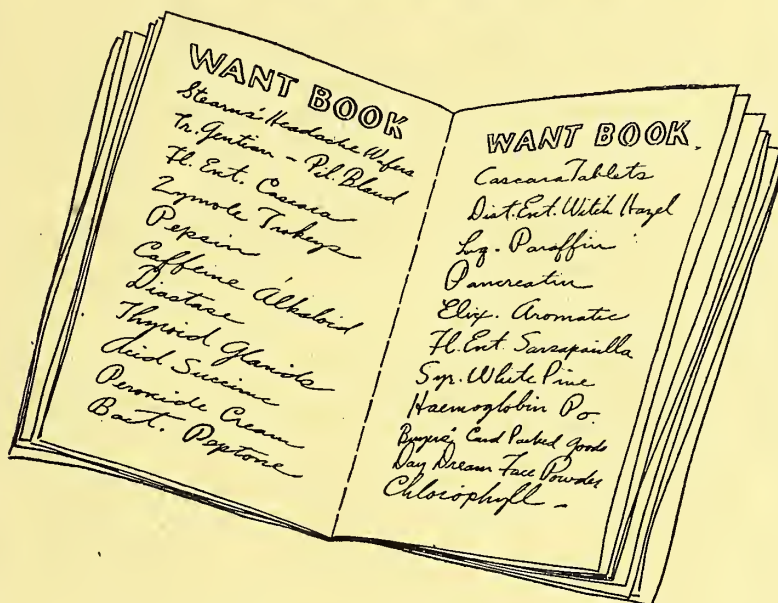
Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil Argent. Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylate Soda, Sulphate Iron, Staranised, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger. etc. etc. Also Glasswares and Bottles.

Correspondence respectfully invited to

TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.



**STEARNS
QUALITY**
FOUNDED
1855



Stearns Can Supply All of These— and upwards of 5,000 other lines

When you look in your "Want Book," think of Frederick Stearns & Co., and our 66 years in manufacturing quality pharmaceuticals, digestive ferments, packed goods, toilet preparations, perfumery, essences—a comprehensive line of nearly 5,000 products.

You can always make up a sufficient indent for Stearns goods. If the "Want Book" calls for some of the Stearns Specialities, such as Stearns' Headache Wafers (Shac), Kasagra, Stearns' Tonic (Wine), for example—no need to wait until you require a complete assortment of our lines. Your indent can be made large enough for a bill of lading by including staple items for the dispensing department.

Special formula goods are also an important feature of our business. Let us quote.

Quality Courtesy Satisfaction Prompt Service

Frederick Stearns & Company
Manufacturing Chemists
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Branch Laboratories: Windsor, Ont., Canada, and Sydney, Australia
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Telephones: London Wall 4391 & Bank 275.

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THE EASTERN & RUSSIAN TRADING CO., LTD.,**8 Drapers Gardens, Throgmorton Avenue, London, E.C.2.**

Representatives and Agents in France, Holland, Italy, Germany, Switzerland, Turkey, Palestine, Siberia, India, Japan, and U.S.A.

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EXCLUSIVE IMPORTERS AND DISTRIBUTORS OF

**SANTONINE**

From Russia to the Whole World.

RUSSIAN CRUDE DRUGS.GOLD MEDALS:
Paris, 1889 and 1900,
GRAND PRIX:
Turin, 1911.
HORS CONCOURS:
Lyon, 1914.**FERDINAND ROQUES, PARIS.****"ROQUES" ATROPINE**
"ROQUES" COCAINE
"ROQUES" PILOCARPINE
"ROQUES" SPARTEINEManufacturer of Pure
Pharmaceutical Chemicals.
ESTABLISHED 1846.

OTHER SPECIALITIES:

Refined Camphor, Iodides, Iodoform, Iodothymol,
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CACODYLATES. METHYLARSENATES.

SOLE AGENTS FOR U.K.: **W. Charity & Sons, 14 Harp Lane, LONDON, E.C.3.**Telephone: Avenue
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(WHOLESALE ONLY.)

Telegrams: "Charity London."
CODES: A B C and LIEBER'S.

DUTCH

**Sugar
of Milk.**

"THE BEST"

**HOLLANDSCHE
MELKSUIKERFABRIEK**

Amsterdam.

SUPEROL

BRAND

ORTHO-OXYCHINOLINE SULPHATE.

Non-caustic, Non-toxic.

**Why should SUPEROL
be in every Household
?**

BECAUSE it is the ideal Disinfectant and Antiseptic.
SUPEROL should be in every Household, and in
Outfits of NURSES, TOURISTS, TRAVELLERS,
AUTOMOBILISTS, because one can then immediately
apply.

IN ALL CASES, an entirely harmless, yet very
highly powerful disinfectant for use both with adults and
children.

SUPEROL can be applied in cases of affections of the
THROAT, MOUTH and NOSE. BURNS. INSECT
STINGS, the CLEANSING OF WOUNDS, HÆMOR-
RHOIDS, INTERNAL RINSINGS, etc. FOR
VETERINARY PURPOSES.

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Further particulars, samples and literature on application to the
Sole Agent for the United Kingdom—

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2 Broad St. Place, Blomfield St., London, E.C.2.

— Manufacturers —
The United Chemical Works, AMSTERDAM.

THE ANGLO-FRENCH DRUG CO., Ltd.238a Gray's Inn Road,
London, W.C. 1.

Telephone: HOLBORN 1311.

Telegrams: "AMPSALVAS LONDON."

NEW YORK: 1270 Broadway.

MONTREAL: Dandurand Building.

PARIS: 5 Rue Clauzel.

BOMBAY: P.O. Box 460.

CAPE TOWN: 71 Long Street.

BRUSSELS: 36 Rue du Couloir.

WEST-END DEPOT: MODERN PHARMACALS (Managing Director: J. G. GORDON, M.P.S.), 43 Mortimer St., W. 1.

Telephone: MUSEUM 564.

**PHARMACEUTICAL
PREPARATIONS.****AMBRINE.**

A great advance in the treatment of burns (slight or severe). Gives immediate alleviation of pain. Also for Chilblains, Ulcers, &c.

AMIBIASINE.Compound Extract of Garcinia
Treatment of Amœbic Dysentery.**ANIODOL.**Antiseptic. Disinfectant.
Deodorant for Sick Rooms,
Instruments, Bed-pans, &c.**CRYOGENINE**

(LUMIERE).

A general Antipyretic Powerful
Analgesic.
Supersedes ANTIPYRIN, PHENA-
CETIN and PYRAMIDON.**CUPRASE.**Specially prepared CHEMICAL
Colloidal Copper for CANCER.
Has given most encouraging
results in a good number of cases.**CYTO-SERUM.**Intensive Strychno-Arsenical
Medication for Pulmonary Tu-
berculosis, Syphilis, Pernicious
Anæmia, &c.**DIABETIFUGE.**A successful Anti-Diabetic.
Gives most satisfactory clinical
results (formula given).
Administered in Cachets.**DIGITALINE Cristallisée**(Eccalle). Standardised. The true
active principle of Digitalis
purpurea.**Elixir Bromo-Valerianate.**"Gabail" Valerianate with Stron-
tium Bromide and Syrup of
Orange.**ENDOCRISINES.**Organo-therapy Extracts of
Internal Secretory Glands pre-
pared in *vacuo* at freezing-point.

Tested as per L.G.B. Regulations.

GALYL.Salvarsan and Neo-Salvarsan sub-
stitute (Intravenous or Intra-
muscular). Effective and safe.
Produces no undesirable effects.**HECTARGYRE.**A combination of Hectine with
Mercury.
Intramuscular Injection; also in
Pills and Drops.**HECTINE.**Anti-syphilitic. Low Arsenic
percentage. Good results in
Intractable Syphilis.
Intramuscular Injection; also in
Pills and Drops.**BAUME DURET**The External Treatment of Skin
Diseases.

Eczema, Psoriasis, Scabies, etc.

CURATOXINEThe Internal Treatment of Chronic
Dermatoses.Promotes the elimination of Endogenous
Toxins.**STANNOXYL**

(Robert & Carrière)

Treatment of Staphylococcal Affections.
Acne, Boils, Carbuncles, Styes, etc.**VALERIANATE**

("Gabail")

Odourless. Tasteless.
Supersedes the B.P. Tincture.**Elixir Bromo-Valerianate**

("Gabail")

An Elixir of Valerian containing
Strontium Bromide.**PHARMACEUTICAL
PREPARATIONS.**

Quinine Salts are now Restricted.

KINECTINE.A Quinine Salt of Hectine. Pro-
phylactic and Curative for Hay
Fever, Rhinitis, Influenza.
In Tablets.**KRAMYZARINE.**Treatment of Varicose Veins,
Phlebitis, Varicose Ulcers, &c.**LATAPIE.**

Reaction.

Simplified Wassermann Test,
from the Pasteur Institute.**MORUBILINE.**Extract of the fresh liver of the
cod. Supersedes Cod Liver Oil.**NEOCAINE-SURRENINE.**A perfect Cocaine substitute of
low toxicity.
Reliable and safe.
Spinal and Local Anæsthesia.
Ointments, Gargle, Snuffs, &c.**OPOLAXYL.**For Constipation. A combination
of pancreatic, biliary, and intes-
tinal secretions. A normal regu-
lator of the intestinal functions.
Tablets.**QUINEINE.**A liquid extract from Cinchona
Succirubra. Contains 5% of
Quinine Alkaloid.**RHEANTINE**

(LUMIERE).

For the treatment of Gonorrhœa
in its various stages by the
internal administrations of
specially prepared Gonococci.
In Spherules. Rapid, effectual,
harmless.**STANNOXYL SOLUTION.**For Staphylococcal affections.
In 2 c.c. ampoules for
Intramuscular Injection.**STANNOXYL TABLETS.**Oxide of Tin and Tin-metal free
from lead. Treatment of Acne,
Boils, etc.**SUKROSERUM.**Solution of Saccharose.
Intramuscular Injection for
Tuberculosis.**SUPSALVS.**Stable Suppositories of "606"
(French Manufacture).
Simple, effective, harmless.
Give excellent clinical results.**TRICALCINE.**Contains the pure phosphates of
lime and magnesia.**URASEPTINE.**Composed of Urotropine and
Helmitol.
A powerful Urinary Antiseptic.
Dissolves and eliminates Uric Acid.

We urge every Chemist to
buy a £2.0.0 quantity of

Antiphlogistine
(P.A.T.A.)

and save 5%

DO IT TO-DAY.

WRITE FOR BEST TERMS, CARRIAGE PAID.

Sole Agent—

J. F. MURPHY, 41 St. Ann's Rd., London, E.3.

Licoricine
ACTS LIKE MORPHINE

Sells freely and readily.

Licoricine	Size	Per doz.
"RED BOTTLE OR ST. PETER'S OIL."	10½	- 8/6
and	1/3	- 12/3
"SPASM DROPS."	3/-	- 27/-



"No case too bad!"
Trade Mark,
ESTABLISHED 1854.

5% Discount 30 days, on orders of £6.

Licoricine is a popular remedy for
Coughs and Colds wherever introduced.

Now is the time to get in your stock.

MANDALL & CO., LTD.
Tower Works, NEWCASTLE-ON-TYNE

National Telephone: 143 CENTRAL.

LIQUID BARKOLA COMPOUND

The Well-known Specific for Rheumatism has been
on Sale continuously in Great Britain for over
30 Years.

Wholesale 30/- per doz. Retail 3/-

Each bottle (1-oz.) carries instructions to the Chemist to make
up to the following Standard Formula—

Liq. Barkola Comp., 1-oz. ; Tincture of Gentian, 1-oz. ;
Syrup of Rhubarb, 1-oz. ; Syrup of Ginger, 5-oz.

Chemists charge according to their own scale for dispensing.

THE BARKOLA CO., Ltd.,
42 Great Dover Street, London, S.E.1

Cephos

For NEURALGIA, HEADACHE,
RHEUMATISM & INFLUENZA.

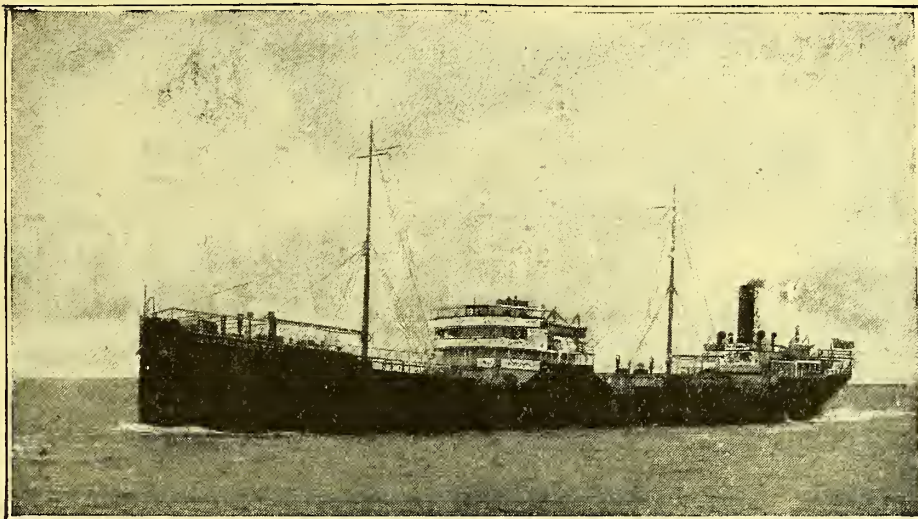
TRADE TERMS:

MINIMUM RETAIL PRICE	1/3	3/-
PRICE per doz.	12/-	30/-

Bonus of 10/- on £5 worth for 14 days' Window Display

Terms: Cash in one month. Orders carriage paid. Minimum
Retail Price: Loose powders 2½d. each, yielding a profit of 99%.

CEPHOS LTD., BLACKBURN, Lancs.



Tank Steamer "NARRAGANSETT II."

Choice of Finest Materials

The Nujol Laboratories of the Standard Oil Co. are not restricted to one, or even several, producing centres for their raw materials. They operate the largest merchant fleet of steamers in the Western Hemisphere. The result is that the Nujol Laboratories are able to select for their product the finest crudes the world produces.

Nujol is produced in bright, cleanly well-aided factories, where the strictest sanitary regulations prevail.

A corps of expert chemists follow the product through manufacture, and tests are made during the various processes for purity and viscosity. Get your share of Nujol profits. They are larger than the average proprietary. The first purchase leads to repeat orders because Nujol is a treatment—not a single dose remedy. Orders received now will have prompt attention.

Nujol

TRADE MARK

FOR CONSTIPATION

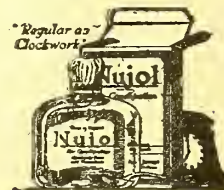
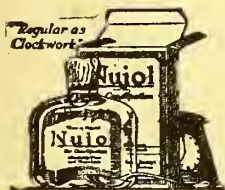
Made by the Standard Oil Co. (New Jersey), New York, U.S.A. If your wholesale house cannot supply you, write to the sole distributors for the United Kingdom: The Anglo-American Oil Co., Ltd., Minerva House, Bevis Marks, London, E.C.3. For India: Muller & Phipps, (India), Ltd., Bombay, Calcutta, Madras.

WRITE FOR FULL PARTICULARS.

Full details of Special Free goods offers, also advertising and window display materials, on application to the

ANGLO-AMERICAN OIL CO., LTD.

MINERVA HOUSE, BEVIS MARKS, LONDON, E.C. 3.



One of the very best sellers in *your* business, with a specially rapid sale, and well advertised.



1/3

WOODWARD'S "GRIPE WATER"

1/3 per Bottle.

(Under the protection of P.A.T.A.)

NET PRICE:

1 gross, delivered free to your door, £7.

Your profit is 28½ per cent.

No more used "Gripe Water" Bottles required.

On and after March 31st next we shall cease accepting used bottles.

Window Displays and Show Cards.

Terms for above on application direct to us or through wholesalers.

Sole Proprietors—W. WOODWARD (1920) LTD., 79-87, Fortess Road, London, N.W. 5.

A Proven Remedy with a PROVEN SALE "ALEXINE"

ASSIMILABLE PHOSPHORUS.

THE GREAT FRENCH SPECIFIC FOR ANÆMIA, NEURASTHENIA, DEBILITY, LOW SPIRITS, DEPRESSION, INSOMNIA, NERVOUS EXHAUSTION, ETC. ETC. ETC.

THE great majority of persons to-day suffer, little or much, from nervous exhaustion in one form or another. A strong demand exists for a genuine Nerve Cell Nutrient such as "ALEXINE." "ALEXINE" enjoys a huge sale in France—where the need for it is not so great even as in this country. "ALEXINE" has been tested on the British market with highly satisfactory results. The first large consignment has been sold quickly and without advertising. NOW an extensive and widely-spread advertising campaign is to be launched immediately in the big circulation dailies and weeklies. YOU should stock "ALEXINE"—the popularly-priced Nerve Cell Food and Invigorator which sells. "ALEXINE" has the support of the medical profession. Write to-day for terms to—

HEPPELS, 164 Piccadilly, W.1. FOREIGN CHEMISTS



SHADFORTH

Prescription Service, Ltd.,
63 Grove Rd., Bow, London, E. 3.

Re Co-operation in Business

Dear Mr. Pharmacist,

I wish to introduce to you a unique and practically new method by which our mutual business interests may be advanced.

If you are interested and see possibilities in co-operation with the Shadforth Prescription Service, I shall be glad to forward particulars on hearing from you.

Believe me, Yours sincerely,

W. SHADFORTH.

Please mention this "C. & D." advert. No. 4, April 2, 1921, in your reply and mark it "Retailers' Department."

See also announcements in issues of March 12, 19 & 26.

ETABLISSEMENTS CHATELAIN, 2 Rue de Valenciennes, PARIS.

*All Chatelain's preparations are
on the P.A.T.A. List.**Jubol, Globéol, Gyraldose, Pagéol,
Fandorine, Sinubérase, Filudine,
Jubolitan, Jubolitoires, Vamianine,
Dialirol, Linycol, Rhino - Fogyl,**Fogyl, Romanyl, Poral, Poralin,
Noctyl, Rucoval, Furosyl, Succine,
Corivore - Plaster, Collampoules :
Vamiol, Bokanol, Gamostyl, Plasmocol,
Dosarter, Pyran.*

Urodonal

**Costs you 9/7
Sells at 12/-**

SIMILAR TERMS ON ALL PREPARATIONS.

From Sangers ; May, Roberts ; Butler & Crispe, and all Wholesalers.

Sole Agent for U.K.:

M. E. BOUSSARD, 7 PADDINGTON ST., LONDON, W.1.

P.A.T.A. NOTICE.

113 Temple Chambers, Temple Avenue, E.C. 4.

2nd April, 1921.

The following revised prices are now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
1/- Browning's Semprolia Snow (2-oz. jars)...	...	1/- 9/- doz.

MANUFACTURERS of TOILET and PERFUMERY articles of a Proprietary character, sold largely in the Drug Trade, are cordially invited to place these preparations on the Protected List. All enquiries on the subject to the Secretary will be promptly attended to.

To Chemists

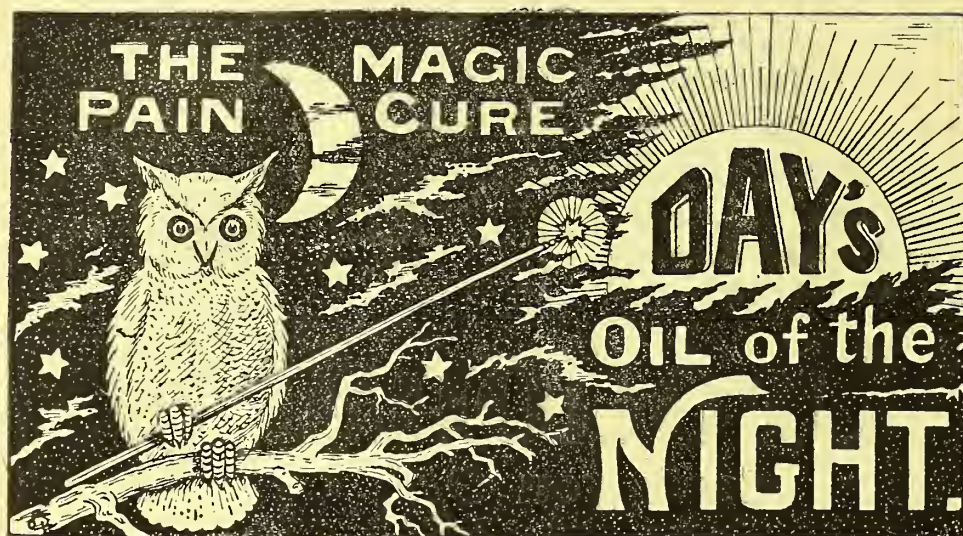
Will you please note that we have now completed our list of ENVELOPES, CIRCULARS, BILLS, BOOK MARKS, and WALLETS for advertising your

Photographic Goods

The Season is now on, it will pay you to send for Samples at once, and get them out, and we trust you will do good business.

Thomas Waide & Sons Ltd.

Medical Label Printers,
10, DARLINGTON STREET,
KIRKSTALL ROAD,
LEEDS.



Retailed
at 2/-
and 4/6.



Liberal
discount
to the
Trade.

UNEQUALLED FOR CHEST COLDS & BRONCHITIS, RHEUMATISM,
SPRAINS AND STIFFNESS. - - FOR ALL ACHES AND PAINS.

Simple to use. Effective and Invigorating. Splendid for Athletes.

PREPARED ONLY BY
ESTABLISHED 1840.

DAY & SONS, CREWE, Ltd., CREWE

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills :

1s. 3d. size	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	26s. 6d. " "
5s. 0d. new size, contains double the quantity of 3/- box.	...	...	...	...	50s. 0d. " "

Beecham's Cough Pills :

1s. 3d. size	...	...	...	...	10s. 6d. " "
3s. 0d. "	...	...	...	...	26s. 6d. " "

Minimum quantity £5 value. Packages FREE. Carriage PAID. CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ltd., St. Helens."

Finest BLACKS and COLOURS

(ALL SHADES)

*Soluble in Water, Spirit, Oil,
Turps, Benzoline, Glycerine,
Wax, Naphtha, Petroleum,
Creosote, in fact — anything.*

**BLACK
FOR INK.**

MARKING INK.

ETERNITE

Combined Preservative
and Stain for Wood.

HOUSEHOLD DYES.

**CARAMEL
COLOUR**

in Powder.

**Guaranteed
Harmless.**

50 times the concentration
of Liquid Caramel.

RHEUMSOL BATH SALTS in 1/- tins

WILLIAMS BROS. & Co.

HOUNSLOW, MIDDLESEX.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - MANCHESTER - LEEDS.

ASBESTOS FILTER FIBRE

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.

GIVES A CLEAR AND
SPARKLING FILTRATE
AT A MINIMUM COST.

PURE, NEUTRAL AND INSOLUBLE.

Write for Samples and Prices to
TURNER BROTHERS ASBESTOS CO., Ltd.,
ROCHDALE, England.

SALVO PETROLIA

The Perfection of Petroleum Jelly

MANUFACTURED SOLELY BY

THE DEE OIL COMPANY, Ltd.
DELTA WORKS, BOOTLE, LIVERPOOL.

Packed in barrels, kegs and smaller packages according to requirements.

Other Grades

PETROLEUM JELLIES, WHITE BASES, ETC.
Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool."

Established over a Century.

SAMUEL THORNLEY, LTD.

WHOLESALE DRUGGISTS AND DRYSALTERS, OIL
IMPORTERS, GREASE AND VARNISH MANUFACTURERS.

Members of the Methylating Company, Limited.

Telephone:
2271 Central (3 lines).

Telegrams:
"TURPS B'HAM."

Head Office:

6 Snow Hill, BIRMINGHAM.

Works

Slaney Street, Wharf Street.

Branches:

GOSTA GREEN.
GOOCH STREET.
DERITEND.
JOHN BRIGHT STREET.

PREMIER CASTOR OIL

IN BARRELS

IN TINS & CASES

IN DRUMS

PREMIER OIL EXTRACTING MILLS Ltd.
STONEFERRY,
HULL.

Also Manufacturers of

OILS

RAPE
SOYA
GROUNDNUT

MEALS

A Quick-selling Home Dye

The glass tube and the rubber bulb make Ralty Dyes the cleanest-to-use in the world. The dye cannot leave the tube except in solution.

Strong advertising matter, showcards, counter boxes and booklets support Ralty Sales, and the favourable terms quoted make it the most profitable line you can carry.

Ralty Dyes are protected by Patent, and offer you an opportunity of being first in the field with something entirely fresh and successful in home dyes.

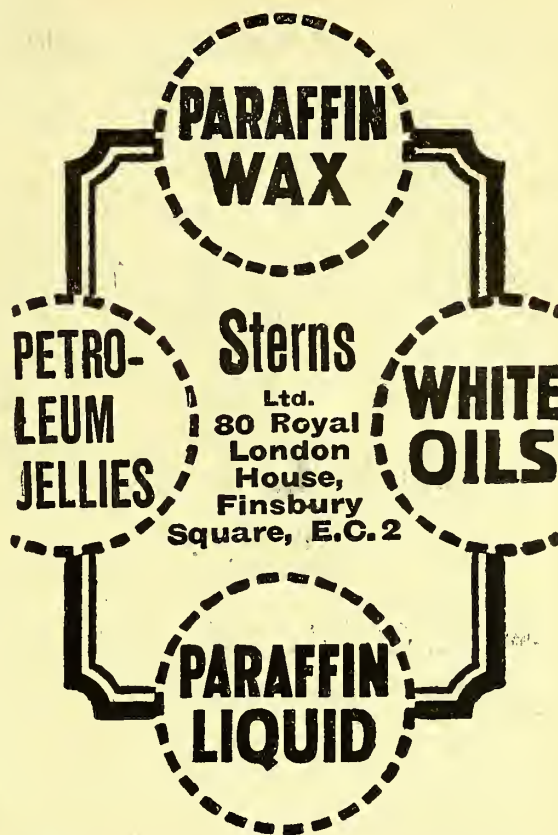
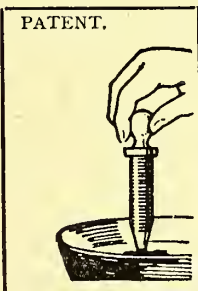
ECROYD & Co.
RALTY WORKS,
FARNWORTH, BOLTON.

Samples of
Ralty Washing Blue, Free.

This picture shows how Ralty is used. Simply press the rubber bulb, three or four times.

Send for free samples, terms, etc.

PATENT.



It is Easy to Sell when it's Advertised Well.

☞ The new advertising campaign of Fairy Dyes is commencing now in every leading Lady's Weekly and Monthly throughout Great Britain. Get ready now for the spring-cleaning time demand.

☞ This intensive campaign is being handled by a leading Agency, and will appeal to the public as never before. It will convince them by forceful "copy" and appropriate sketches of the folly of merely asking for a home dye and not for the home dye—

FAIRY DYES

☞ Quick turnover, increasing sales, repeat orders, for a dye that is simple to use and certain of splendid results, a choice of twenty-two different shades, all alike suitable for cottons, linens, woollens or silks. These are some of the Fairy features.

☞ Underline "Fairy Dye" in your mind. Put it to yourself this way. "Am I ready with plenty of stocks to meet the demand which is almost upon me now? Fairy Dyes are already in demand, and are sold to the public at 2d. per packet. Can I supply them?"

"FAIRY DYES, Ltd."

Registered Office:

20 Renfrew St., GLASGOW.

Telegrams

"FAIRYLAND GLASGOW."



MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined
with the best Norwegian Non-Freezing Cod Liver Oil.

*Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled
and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.*

Telephones:
Nitshill-Pollackshaws 14
London-Avenue 5661
(3 lines).

PERRY & HOPE, Ltd.

Telegrams:
"Perryope, Nitshill."
"Perryope, Led,
London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND
PROTECTED PRICES.

Food for Babies, Prepared Barley,
N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in
stock, if for any reason you have difficulty in obtaining supplies, please
send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays,
Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price
List we issue to the trade, and we are pleased to exchange any article
which may be out of condition.

ENERGEN BREAD

FOR

DIABETES

The most palatable and nutritious Gluten Bread on the
market and the only Gluten Bread that fulfils the doctors'
requirements.

Packed in sealed boxes containing light, crisp, delicious
rolls, specially for Chemists' Trade.
Can be stocked without any risk of deterioration and
yields a substantial profit.

Enquiries invited.

THERAPEUTIC FOODS CO., 19c Roundwood Rd., Willesden, N.W.10. [1]

BUXTON NATURAL MINERAL WATER

can be had in bottled form, 7 oz., 11 oz.
and 24 oz. Sparkling and Still. Forms
an ideal Table Water and mixes excellently
with wines, spirits, and non-intoxicants.

*Agencies wanted in
the United Kingdom.*

Particulars from

J. M. SCOTT, General Manager, Mineral Springs, Buxton.

VITMAR

The Medical Profession are recom-
mending VITMAR for delicate
Children and Invalids.

If you do not yet stock it your whole-
saler will supply you.

Manufacturers—

CALLARD & CO., Food Specialists,
74 Regent Street, LONDON, W. 1.

DON'T WAIT FOR THE HOT WEATHER

ORDER THIS NOW Special Bonus Carr. Paid Parcel (Window Show) Offer

G.O. LEMONADE

NO SUGAR REQUIRED.

BONUS 1 DOZ. 6½d. IN PAYMENT FOR DISPLAY.

SELLS FOR **£4 11s. 4d.**

ATTRACTIVE SHOWCARDS & WINDOW SLIPS WITH ALL ORDERS.

12 dozen 2d. size ...	17 6
6 " 3½d. " ...	15 0
2½ " 6½d. " ...	11 9
1½ " 1/3 " ...	15 9
	£3 0 0

BONUS OF 2½ DOZ. 6½d. WITH ORDER FOR DOUBLE PARCEL COSTING **£6.**

WRITE—

THE GREENWICH LEMONADE CO. (J. MILNER, M.P.S.)
11 JOHN PENN STREET, LONDON, S.E. 13.

(LESS 2½ % FOR CASH WITH ORDER)

YOUR PROFIT IS NEARLY 40% ON TURNOVER.

2

New

Profitable

Lines

CAMWAL

Pearlspring Health Salts

Aquaperia Salts, P.A.T.A.

HANDSOME PROFITS ASSURED. WINDOW DISPLAYS.
Prices and Terms on Application.

CAMWAL LTD. LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE.
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Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE
TO CHEMISTS
WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.



EFFERVESCENT HEALTH SALT

OF EXCELLENT QUALITY
IN DECORATED TINS OF
VERY ATTRACTIVE AND
EXCLUSIVE DESIGN.

*Also in labelled Tins under
Customer's "own name."
Showcards Supplied Free.*

For Prices and Full Particulars—
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Manufacturing Chemists,
12 TOWER HILL, LONDON, E.C. 3.

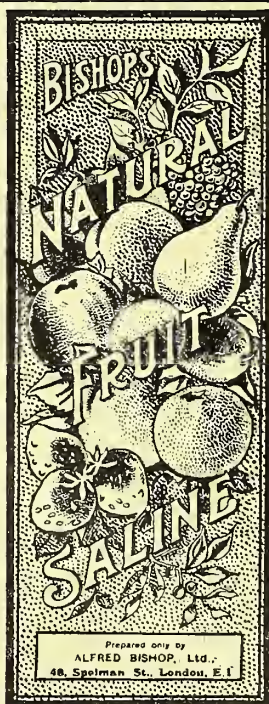
BISHOP'S NATURAL FRUIT SALINE

What it is.

BISHOP'S Natural Fruit Saline

is free from sugar or
saccharine, yet makes a
delightfully palatable
beverage. Clears the
liver and kidneys, and
acts as a mild aperient.
It is manufactured in
small granules and keeps
well in any climate.

*It pays to push
BISHOP'S !*



What it costs.

BISHOP'S Natural Fruit Saline

retails at 2/3 per bottle
P.A.T.A.

Wholesale price, 20/-
per dozen.

5 dozen - - £5 0 0

10% discount 10 0

Net £4 10 0

Carriage Paid.

Thus showing a profit of
9d. per bottle.

*Attractive show material and
price cards sent with each order.*

PREPARED
ONLY BY

ALFRED BISHOP, LIMITED, 48 Spelman St., LONDON, E. 1



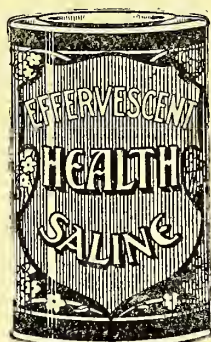
EFFERVESCENT SALINE

(In 4-oz., 6-oz., 8-oz., 12-oz. Tins.)

GRANULAR EFFERVESCENT MAG. CIT.

(8-oz. Cheltenham.)

BY APPOINTMENT



HEALTH SALT IN DECORATED TINS

1 gross ... 6/- per doz.
Smaller quantities 6/6 " "

**CORBYN, STACEY
& CO LTD**

Wholesale & Export Druggists,
Manufacturing Chemists,
LONDON.

Essences

Essential Oils

and

Aromatics

for all purposes.

PREPARED BY
A. Boake, Roberts
— & CO. LTD., —
**100 CARPENTERS ROAD,
STRATFORD, E. 15.**

Telephones: { East 846, 847.
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Telegrams: "Boake, Strat, London."

*If you want
good value in*

FOREIGN AND
BRITISH WINES.

"CROWN" Brand
LIEBIG'S MEAT & MALT WINE.

"WIN - FERRO"
TONIC BLOOD WINE.

**LIME JUICE CORDIAL
AND LEMON SQUASH.**

For Prices & Samples write to—

LAMB & WATT Ltd.
(Established 1847)

48 St. Anne Street - Liverpool.

*Highest Awards at all International Exhibitions
where shown.*

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THIS MEANS THAT

Mason's
Extract of Herbs

Will be in big demand this season

and chemists are requested
to replenish their stocks.

Send for Price List to

Newball & Mason
NOTTINGHAM.

An Excellent

Spring Line!!

TONIC HERB BEER TABLETS

Produce Foaming, Appetising,
Ambrosial Beer in a few seconds.

One Tablet added to half a pint of water produces one glass of
excellent non-alcoholic beer.

**Packed in artistic tins (each containing
25 tablets) retailing at 1/6 per tin.**

Wholesale Price **12/-** doz.

ARTISTIC AND UP-TO-DATE SHOWCARDS SUPPLIED

We can also supply in bulk; prices and samples on application.

C. R. Harker, Stagg & Morgan, Ltd.

DEVON WHARF and BELL WHARF

EMMOTT STREET, MILE END, LONDON, E. 1.

CORN VELVET!!

(P. J. 387)

This is attractively carded on 3 dozens, and
retails at

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Price 36/- per gross.

*Very effective in use and
brings repeat orders.*

THOMAS SWALES,

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GREAT REDUCTION

IN PRICES.

Vulcanite DOUCHE FITTINGS
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French SHAVING Brushes
also TOOTH Brushes
TO BE CLEARED.

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DUST COMBS

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WHOLESALE ONLY.

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Tel.: 3765 City.

LONDON, E.C.1.

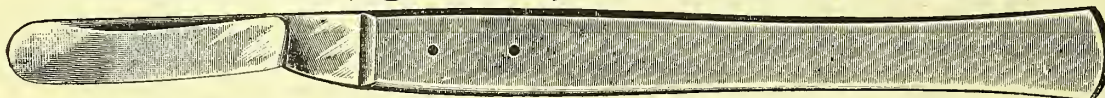
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Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Oesophageal Instruments,
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"INTRINSIC" Brand (Highest Grade) SURGICAL KNIVES and SCISSORS.



ACTUAL MAKERS OF
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J. MILNER & Co.

Orient Works, 36 & 38 Matilda St., SHEFFIELD. (Estd. 1842.)

FOR

TRUSSES

TRY THE MAKERS:—

SAYERS, SILCOX, CUZNER & CO., LTD.,

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A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902,
by the Société d'Hygiène of France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.



You can safely recommend it.

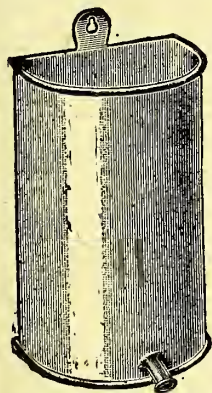
Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.
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Enamelled Hospital Requisites



China White Enamelled Steel DOUCHE CANS

Bent spout which
prevents rubber kinking.

2, 3, 4 & 6 pints

With front handle if required.

Male URINALS

(939 B)

Only pattern made.

IMMEDIATE DELIVERIES

Slipper Bed Pan

Regulation
pattern.



ACTUAL MAKERS—

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The RICE PATENT ADJUSTABLE ELASTIC TRUSSES

PADS—Various Shapes and Sizes, Hard or Soft.

ABDOMINAL SUPPORTS,
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ALTERATIONS FREE IF NOT SATISFACTORY.

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We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

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Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.

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"Put some *LIFE* into that Dead-looking Hair."

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So much used by our American Sisters—sold in bottles from 7/6 upwards. For full particulars apply—

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ALL CHEMISTS SHOULD STOCK

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THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral Waters. The Original and only genuine Fruit Drink.

Reduced Price List can be had on application.

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Pyrogallic Acid Gallic Acid

Manufactured by **J. L. ROSE**
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CERIUM CARBONATE.

For sale in regular monthly quantities, Cerium Carbonate. Small sample on application.

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PERFECT
PLASTER OF PARIS
BANDAGES

MANUFACTURED BY THE
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DO
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SPOIL
BY
EXPOSURE.



HARDEN
RAPIDLY
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FIRMLY.

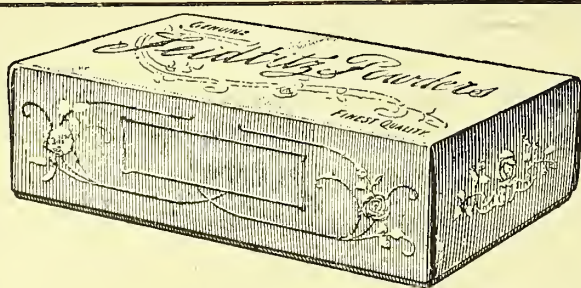
“ The Leicester ” Plaster of Paris Bandages are unique. They are made by a process which incorporates the Plaster of Paris into the pores of a specially-woven fabric, and are entirely free from loose powder. The bandages have only to be dipped in water without unwinding and applied in the same way and with the same ease as ordinary open-weave bandages. Within a few minutes after application they set as hard as rock.

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FIRST IMPRESSIONS ARE OF VITAL IMPORTANCE

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ROBINSON & SONS, LTD.,
BOXMAKERS TO THE CHEMIST TRADE,
CHESTERFIELD.

32



Tubes that attract

Let your collapsible tubes be more than mere containers

Venesta Collapsible Tubes enhance the value of their contents. They possess a quality and finish which make them a real selling force. Remember this when ordering your next supply.

In TIN, LEAD & LEAD COATED WITH TIN

Plain or enamelled
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ZEAL'S REGISTERED
Clinical Thermometer
The REPELLO requires no
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A 30-second pushed back in
an instant.



NEW IMPROVED
LENS FINDER

The only Easy Reading Magnifying Clinical on the Market.
IN FOCUS



OUT OF FOCUS
The square mark engraved on lens front
locates the Mercury column immediately.
SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.
All Clinical Thermometers are N.P.L. Tested.

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Wholesale Manufacturer of Clinical Thermometers.
Contractor to H.M. Government.
Established 1888. Tel. No.: Central 12438.

British Made

Filter Papers.

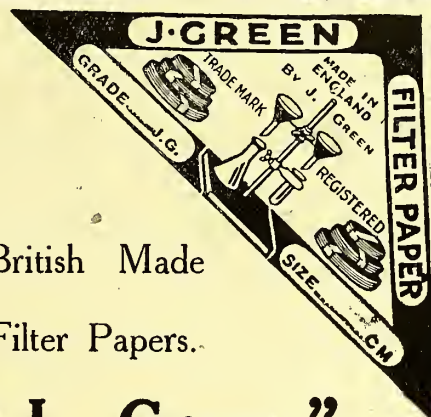
“J. Green”

New and Improved
fast White Filter.

Grade 595 J.G.

Makers:

J. BARCHAM GREEN & SON,
Hayle Mill, Maidstone, England.



“Corruganza” SEAMLESS
PILL BOXES.

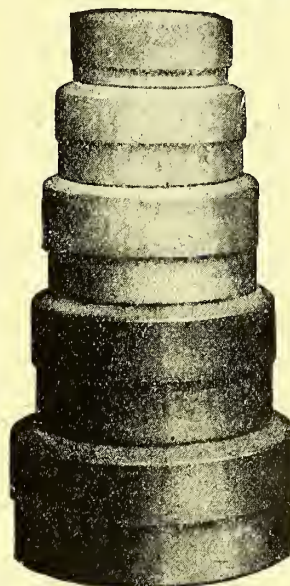
THE phenomenal success of the
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ONE-PIECE principle.

They cost a little more than the Ring
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STOCKED IN USUAL SIZES.

“Corruganza” SEAMLESS
OINTMENT BOXES



Have replaced the
old willow boxes.



The bottoms
cannot fall out.



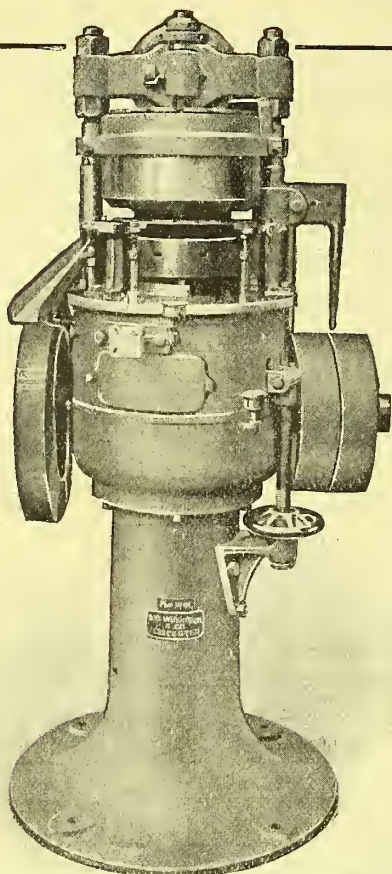
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<p>The 20-Punch Machine is suitable for tablets from $\frac{1}{4}$" diameter up to $\frac{1}{2}$" diameter. Output up to 700 tablets per minute.</p>	<p>(PATENT) Lists on Application.</p>	<p>The 12-Punch Machine is suitable for tablets from $\frac{3}{8}$" diameter up to $\frac{7}{8}$" diameter. Output up to 400 tablets per minute.</p>
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DURING the war these Machines ran 16 hours a day non-stop.

SINGLE punch machines, made in 5 sizes for tablets from $\frac{1}{8}$ " to $1\frac{1}{2}$ " diameter, also lozenges.

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Machines on the Market.

For TUBES, POTS,
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"ATLAS" PATENT SIFTERS & MIXERS



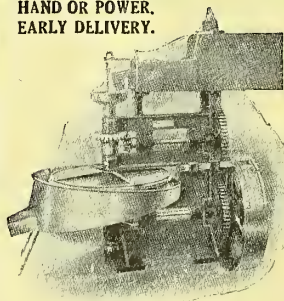
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Speedy, Reliable,
Durable—these words
describe their effi-
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HAND OR POWER.
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THE
GRIMSLEY
PILL-ROUNDING
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And complete installation
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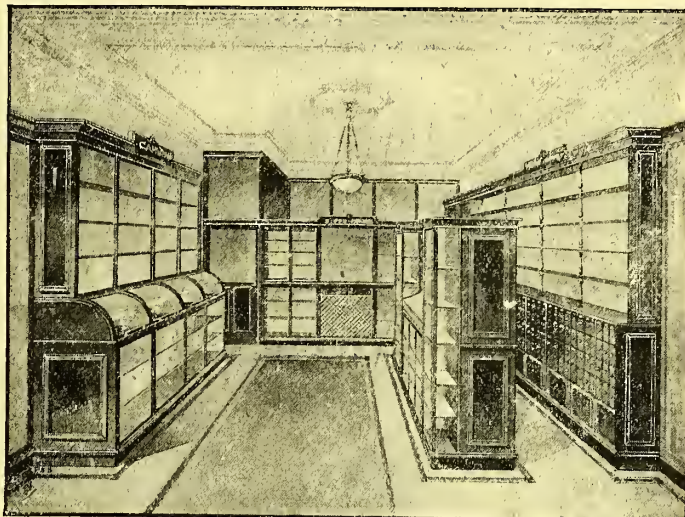
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**QUICKLY EARNS
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Made from well-seasoned wood,
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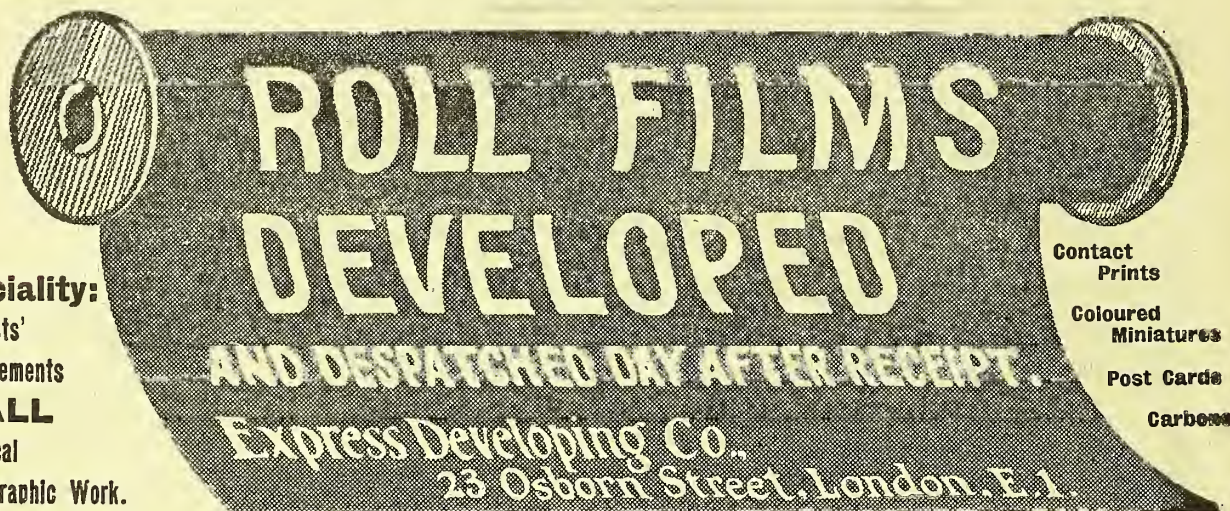
85/- each.

"Improved Dudley" Till
Coils 5/- doz.

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RECOMMEND JOHN BOND'S "CRYSTAL PALACE" MARKING INK



6d. size in enlarged square
Bottle (as illustrated)

THE ONLY WELL-KNOWN BRAND RIGIDLY PROTECTED AT FACE VALUE.

A STRAIGHT 6d. and 1/- LINE.

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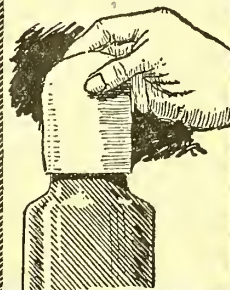
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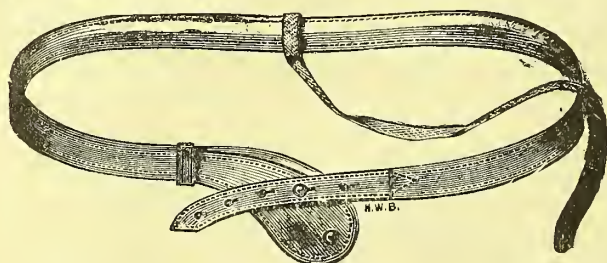
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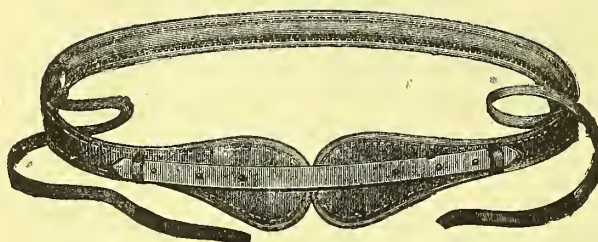
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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

APRIL 2, 1921

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

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SOUTH COAST TOWN.—Smart, active, competent Junior Assistant required for good-class business; good Window-dresser, with ideas and able to carry them out; sound business knowledge and Photographic experience essential. Apply, stating age, height, salary, references, and experience, 54/1, Office of this Paper.

SOUTH OF ENGLAND.—Assistant required; permanency, with good salary. Timothy White Co., Ltd., Portsmouth.

UNIVERSITY COLLEGE HOSPITAL, Gower Street, W.C. 1.—Wanted, Assistant Dispenser, holding Pharmaceutical Society's qualification; hours 9 to 5, Saturdays 9 to 1; six hours additional duty every fourth week; commencing salary £165 per annum; lunch and tea provided. Apply to C. H. Hampshire, Pharmacist.

A SMART young lady Assistant required for Counter and Dispensing; good country Mixed business; live out. Full particulars to "Radix," o/o Messrs. Wright, Layman & Umney, 48 Southwark Street, S.E. 1.

ASSISTANT, age under 30; gentleman; must be used to exceptionally good-class business and Dispensing, not N.H.I.; for a few weeks (or longer), from early May; hours 9 to 7; no Sunday duty. Cardiston, Shrewsbury Road, Birkenhead.

ASSISTANT wanted, as soon as possible; must be well up in Dispensing and Counter, and possess undeniable references. Kindly state salary, experience, and when at liberty, to 57/26, Office of this Paper.

ASSISTANT, single, outdoors, for South London quick Cash business; must be expert Window and know Photographics; in reply, give full particulars as to experience, age, salary, and references. Apply 56/39, Office of this Paper.

BODY'S PHARMACIES have vacancy for competent Dispenser, possessing experience good-class Retail Pharmacy. State full particulars first letter, age, salary (indoor and outdoor), and enclose recent photo, Body, 167 Broadway, Southend-on-Sea.

CAPABLE Assistant wanted (early in April), with good Dispensing experience and knowledge of Photographics; outdoors. Apply, with full particulars, Pyman, Chemist, Westgate-on-Sea.

CAPABLE Assistant; unqualified; able to take charge; knowledge of Photography; single, 25 to 35; fullest particulars as to salary, etc.; outdoor berth. T. Hartley, Pharmacist, Liverpool.

CAPABLE Assistant wanted immediately, for Light Retail and Dispensing. Apply X. X. Z. (11/11F), Office of this Paper.

COMPETENT Assistant for Dispensing and high-class Retail with Photographics; permanency; unqualified. Apply, stating previous experience, age, height, salary required (outdoors), and when at liberty, to D. T. Evans, The Parade, Margate.

COMPETENT lady Assistant required; preferably Minor after regular apprenticeship; Dispensing, Counter, Packing; hours 49 weekly; give full particulars by post, without photo, in first instance, stating salary required (outdoors); applications unanswered in four days respectfully declined. Sadler, Chemist, Crawley, Sussex.

COMPETENT Assistant Wanted; outdoors; about 30; understand Photography and Window-dressing; must be reliable and have good references; send full particulars experience, age, and salary required in first letter; applicants unanswered in 3 days declined; London, S.E. Apply 56/1, Office of this Paper.

IMMEDIATELY.—Junior Assistant (male); unqualified; outdoors; capable Dispenser; personal application preferred. A. T. Honiatt & Son, 35 Junction Road, Highgate, N. 19.

IMMEDIATELY.—Capable Dispenser and Counterman; single; used to a good-class business; knowledge of Photography essential; good references necessary; give all particulars in first letter, enclosing photo, if possible, stating salary required (outdoors). Chater, Chemists, Watford.

IMPROVER, or youth just finished apprenticeship, required in good-class Retail business in riverside town. Apply, giving full particulars and salary required (indoors), and send photo, if possible, to Mrs. Holme, Market Place, Wallingford.

JUNIOR Assistant wanted; one accustomed to Dispensing preferred. Apply, giving usual particulars and salary required, to Bradley & Bourdas, Ltd., 48 Belgrave Road, S.W. 1.

JUNIOR Improver wanted to assist at Dispensing, Counter, or stock as required; outdoors; suit one just out of good apprenticeship; special opportunity for increased experience. Full particulars, by letter, to Topholme & Son, Earl's Court.

JUNIOR Assistant wanted; must have some idea of Window-dressing; knowledge of Photography would be an advantage. 56/15, Office of this Paper.

LOCUM (lady); Liverpool suburb; July 11th to 17th (inclusive); sleep at home; dine in town; tea provided; must be good Dispenser; will be helped in other work by experienced lady. State terms, 57/39, Office of this Paper.

MANAGING Assistant required for East London district, qualified or unqualified; quick Counter business, no Dispensing; one with up-to-date ideas and a good Window-dresser. Please send full particulars and wages required (no stamps for reply) to "C. B." (58/15), Office of this Paper. Applications unanswered within two weeks refused.

QUALIFIED Manager, entire charge of a lock-up branch Pharmacy, W. Riding, Yorks, colliery village; arrangement for services of a man and wife would be considered; recent references required as to character and efficiency. Ward, Chemist, Denaby Main, near Rotherham.

QUALIFIED Assistant (lady or gentleman), immediately; single; not over 35. Please give full particulars as to age, experience, salary required, and references of last two employers, enclosing a photograph if possible, to Wain, Pharmacist, Ripley, Derbyshire.

QUALIFIED lady wanted; easy post; good time off; 25s. a week, all found. Apply 52/15, Office of this Paper.

QUALIFIED lady for mixed country business; comfortable berth; healthy district. References, photo, and salary required, to Phillips, Chemist, Craven Arms, Shropshire.

QUALIFIED Assistant wanted; one day a week holiday; must have had good experience and excellent references. Apply Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, London, E. 2.

QUALIFIED lady Assistant; Dispensing experience essential; high-class Pharmacy; outdoors. Full particulars of experience and salary required, photo, R. C. Harrison, Beacon Hill, Hindhead, Surrey.

WANTED, young lady Pharmacist as Dispenser in Retail Pharmacy near Birmingham. Write, stating age, salary, etc., to 175 Warstone Lane, Birmingham.

WANTED, early in April, unqualified Assistant (gentleman); outdoors. Apply, giving full particulars and stating salary required, to Gregory & Wrenn, Chemists, Taunton.

WANTED, for three months, Junior Assistant (gentleman); good-class country business; outdoors. Usual particulars and salary required, N. G. Beck, Burgess Hill, Sussex.

WANTED, competent unqualified man for relief work; must be of good appearance and address, and thoroughly reliable; from middle of April to end of October. State salary required and full particulars in first letter to 57/10, Office of this Paper.

WANTED, a gentlemanly Assistant, qualified; outdoors; must have had first-class experience Retail and Dispensing; permanency for man with energy and push, and if suitable an interest in the Business might be arranged. State full particulars of age, experience, and salary required, to 58/2, Office of this Paper.

YOUNG unqualified Junior required; good Dispensing experience necessary. Apply personally or by letter to "W. S. R.," 1 Southwick Street, Hyde Park, W. 2.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

6s. for 40 words or less; 6d. for every additional 10 words or less prepaid.

SOUTH WALES AND LANCASHIRE.—A Traveller wanted on commission on each of these grounds to call on Chemists. Write 53/39, Office of this Paper, giving details as to exact area covered and experience.

ANALYTICAL.—A vacancy occurs in the Analytical Laboratory of a well-known London firm of Wholesale Druggists for a Chief Assistant; the position is one which offers good prospects to an energetic and competent man. Applicants, who must have had Pharmaceutical experience, should apply, giving full particulars, salary required, etc., to 15/42, Office of this Paper.

JUNIOR Buyer wanted for Manufacturing Chemists in East London district; must have knowledge of Drugs and Chemicals, etc. Write, stating age, experience, and salary required, P.C.B. 73/15, Office of this Paper.

LIVE Representative wanted, with good connections, for Midlands and Wales; very saleable line, already well known; small samples, easily carried as side-line; good commission to suitable man. A. Senier & Co., 195 Seven Sisters Road, Finsbury Park, London, N. 4.

REPRESENTATIVE wanted calling upon Chemists and Photo Dealers to sell well-known Photographic Preparations and Chemicals upon commission. Apply 52/18, Office of this Paper.

REPRESENTATIVES wanted by an old-established house of Toilet Soap and Perfumery Manufacturers for the West of England and South-West district. Reply, stating full particulars, experience, salary, etc., required, to 45/9B, Office of this Paper.

TRAVELLERS, with sound, live connections among Chemists, North, South, East, West London, and 20-mile radius, to carry, on good commission basis, Medicated Lozenges, Pastilles, Tablets, etc., for old-established firm. Write, in confidence, stating districts covered and lines now carried, to "Progress" (P.C.B. 74/5), Office of this Paper.

WANTED, by Wholesale Chemists East End London, Junior for Wet and Dry Counter; previous experience essential. Apply by letter, stating age, experience, and salary required, 73/150, Office of this Paper.

WANTED, a smart young Pharmacist, to introduce a high-class Medical Proprietary to the Medical profession. Write Box 465, Dorland Agency, Ltd., 16 Regent Street, S.W. 1.

WAREHOUSEMAN for City Chemical Merchants; must be experienced, accustomed to Wets and Drys. State full particulars, 24/55, Office of this Paper.

WELL-KNOWN firm of Druggists' Sundriesmen have vacancies for three first-class Representatives having sound connections amongst Chemists, Hairdressers, etc., in following counties: Devon, Cornwall, Somerset, Gloucester, Worcester, Warwick, Northampton, Leicester, Bedford, Hertford, and Oxford; exclusive territory and present connection handed over; only experienced men, of proved selling ability, need apply; salary, commission, and expenses. State full particulars, ground covered, etc., to "Sales Manager" (P.C.B. 74/8), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid

MALAYA.—Wanted, unmarried, qualified Pharmacist, not over 26; 4 years' agreement; first year £420, second, third, £456, fourth £492; splendid opening for hard worker to carve out a successful career in healthy colony. Full particulars to 15/22J, Office of this Paper.

SCANDINAVIA.—Wanted, for old-established Scandinavian Soap Manufacturers of highest standing, a thoroughly capable and experienced technical Chemist to assist the Working Manager for about six months in order to perfect the manufacture of Toilet and Household Soaps. State qualifications, references, and salary required to "Scandinavia" (21/20L), Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.—ASSISTANT; unqualified; 24; single; good all-round experience, including Photography; disengaged; good references; permanent or Locum. Apply 56/22, Office of this Paper.

A COMPETENT Pharmacist-Optician wants post as Manager; used to complete control, buying, etc.; highest references. Apply 55/21, Office of this Paper.

A HALL qualified, long experienced woman Dispenser wants work; not shop please; seaside or country liked, not essential. Mrs. Russell, 9 Guildford Street, London, W.C. 1.

A QUALIFIED Chemist desires position as Manager (with or without investment), where personality and business ability is essential; excellent references; now disengaged; state full particulars, including salary offered. Apply 56/10, Office of this Paper.

A N experienced Pharmacist desires engagement as Senior or Manager; 20 years' excellent experience in all branches. 31 Lorne Street, Burslem, Staffs.

A SSISTANT; unqualified; 40; married; good experience Counter, Dispensing, and Photography; good references; 16 years in last situation; permanency preferred. Winn, "Loughrigg," Windmill Hill, Hexham.

A SSISTANT, unqualified (25); good experience Counter, Dispensing, and Photography in high-class business; good reference; London district preferred; disengaged. Dyball, "Golf Lodge," Sheringham.

A SSISTANT (unqualified); smart Salesman; 15 years' Stores experience, Drugs, Perfumes, Sundries, Surgical, Toilet. "Salol," 37 Brunswick Road, N. 15.

ASSISTANT, capable, reliable; Dispensing and General Retail experience. Whitehead, 5 Bevan Street, Islington, N. 1.

ASSISTANT, unqualified (21), disengaged; 2 years' Clifton experience in Dispensing, Counter, and Photography; Bristol, West of England, or South Wales preferred. Write 57/51, Office of this Paper.

ASSISTANT; unqualified; 35; Counter, Dispensing, Photographics, and Optics; good Salesman; active. Apply "Light" (56/21), Office of this Paper.

ASSISTANT; unqualified; 31; Dispensing, Counter, Window-dressing; good knowledge of Photographics and Surgical Appliances; energetic; keen Salesman. Apply "Flash" (56/20), Office of this Paper.

AAVAILABLE in one month.—Pharmacist, with Sight-testing qualification, desires permanency as Manager; own test case and equipment; good references. "Pharmacist," 17 Westbury Road, Westgate-on-Sea.

BRANCH Manager: 46; qualified Minor; good Prescriber; recommended with confidence present employer; disengaged shortly. "Chemist," 43 Thornton Avenue, Chiswick, W. 4.

BRIGHTON or District.—Assistant (29), unqualified, seeks berth; good local references. Dinnage, 9 Brigden Street, Brighton.

BRISTOL OR DISTRICT.—Assistant (27), passed Part I. Exam., open for engagement; would consider part time until July. Apply 57/52, Office of this Paper.

CAPABLE and reliable Manager or Assistant; all-round experience; excellent references; age 38; disengaged April 11th; Locum or temporary entertained; unqualified. "Number One," 74 Peckham Road, S.E.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." 266 33, Office of this Paper.

COMPETENT Accountant open to audit or keep books of business firms; income-tax returns, etc., prepared; moderate fees. Write Box No. 71, c/o White's 35 Fleet Street, E.C. 4.

COMPETENT Manager, qualified, requires re-engagement; present business being sold; good appearance and address; first-class experience all branches; best references; accustomed buying and sole charge. Offers, "Manager" (P.C.B. 74/9), Office of this Paper.

DISPENSER, lady (Hall) desires post with Doctor or Institute, London or London district; excellent references. Miss M. Gordon, 66 Redcliffe Square, S.W.

EVENING work required by experienced Dispenser and Laboratory Assistant; also efficient Bookkeeper; all evenings free. Apply Bull, 57 Glenwood Road, Catford Hill, S.E. 6.

EXPERIENCED; part or whole time; Dispensing, Prescribing, Bookkeeping, Counter, Dental. "Locum," 122 Scott-Ellis Gardens, N.W. 8.

EXPERIENCED Assistant, reliable; good references; London; disengaged. H. Lemon, 7 Roslin Terrace, Roslin Road, Acton, W. 3.

FIRST-CLASS experience Counter and Dispensing; unqualified; energetic and trustworthy; preferably Nonconformist; South or S-West preferred, but not essential. Apply 56/18, Office of this Paper.

JUST qualified (25), wishes permanency as Assistant or Manager. Apply 57/1, Office of this Paper.

LADY Assistant, unqualified, 5 years' experience Photography, Counter, and Stock, desires position in or around London. Apply 56/25, Office of this Paper.

LADY Dispenser (Hall), experienced, disengaged on fortnight's notice; Doctor or Institution; London or Lancashire preferred; please state salary. Apply 55/31, Office of this Paper.

LADY Dispenser, experienced, engaged part-time Hospital, free Wednesday, Thursday, and Saturday morning; Doctor, Institution, Chemist. E. Field, 27 Cambridge Avenue, Kilburn Park, N.W. 6.

LADY Dispenser, three years' practical experience, requires situation with Chemist, Doctor, or Institution; London or South of England preferred; highly recommended by employer. Apply F. Kanchington, Hawkhurst, Kent.

LADY Dispenser (Hall), four years' experience, excellent testimonials, desires post, Chemist, Doctor, or Institution. 42 King Edward's Gardens, Acton.

LADY Dispenser (Hall) wishes post; 6 years' experience; good references; disengaged. Apply Miss E. A., 61 Binfield Road, Stockwell, S.W.

LADY requires post as Dispenser, Bookkeeper, or Secretary to Medical Man; thoroughly experienced. "E. B.," 45 Plympton Road, N.W. 6.

LOCUM; qualified; experienced; disengaged; long or short periods; moderate terms; satisfactory references. "R.," 58 West Brampton, Newcastle, Staffs.

LOCUM or permanency; up-to-date, qualified, reliable, competent man; 3 years' reference. "Aspirin," 57 Brow Road, Walthamstow, Essex.

LOCUM; Pharmaceutical Chemist; experienced, energetic; booking town or country; terms moderate. "G.," 62 Westbourne Road, Forest Hill, S.E.

LOCUM; take entire charge; terms moderate; vacancies April 14th to May 15th, June 1st to 18th, July 25th to 30th. "Pharmacist," 2 Christian Road, Preston.

LOCUM or permanency, 34, 10 years' qualified experience, desires progressive position; extensive Photographic experience. Lister, c/o Shaw, 111 Bradford Road, Huddersfield.

LOCUM, qualified; Manchester district; at liberty end of March; experienced; satisfactory references. "P.," 69 Hyde Road, Denton, Manchester.

LOCUM; qualified lady; good experience and references. Apply 55/40, Office of this Paper.

LOCUM or otherwise; qualified; single; just disengaged; good references, 12 years; middle-aged; moderate terms. Burn, 4 Longfield Avenue, Romford.

LOCUM, qualified; good experience and references; reliable; disengaged; South of England preferred. "H.," 581 Fishponds Road, Fishponds, Bristol.

LOCUM or Branch Manager (44); qualified; disengaged; highest references. "Rhel," 17 Minna Road, Pitsmoor, Sheffield.

LOCUM, now disengaged and booking forward; elderly; very active; qualified; good Salesman and thoroughly experienced; town or country; terms moderate. Apply 56/19, Office of this Paper.

LOCUM; qualified; experienced; middle-aged; abstainer; disengaged; references; preferably London. Apply 57/28, Office of this Paper.

LONDON, W.—Mr. McEwen wishes to recommend his Junior Assistant to anyone requiring a competent Assistant; she has been with him for eighteen months after four years' first-rate experience in Scottish Pharmacy. K. B., 9 Ranelagh Road, Willesden.

M.P.S. (23); good experience Counter and Dispensing; excellent references. Apply Oakes, Homestead, Brownhills, Walsall, Staffs.

MANAGER or Assistant; qualified; 50; active; used to quick trade; good Window-dresser; disengaged. Apply "M.P.S." (52/16), Office of this Paper.

MANAGER, qualified, capable, reliable, young, requires situation with available living accommodation. "C.," 6 Great Elms Road, Bromley, Kent.

MANAGER or Senior (41); 5 ft. 9 in.; single; qualified; 25 years' all-round experience; good address; capable, reliable; excellent references; 6 years last position. Parsons, 25 Shipston Road, Stratford-on-Avon.

MANAGER; 45 years age; town or country; 7 years last situation. I. W. D., 86 Edenbridge Road, Enfield, N.

MANAGER, Senior, or Locum; position required immediately; highest references; energetic and reliable; age 46; five guineas. Address "Pharmacist," c/o Mr. Mennell, 24 Southcote Road, South Norwood, S.E. 25.

PHARMACIST, married, tall, with 20 years' good experience (South Coast, London, provincial, seaside), Counter, Dispensing, Photographic, Optical, and Buying, as Manager, Senior, or other responsible position; disengaged April 9th. Usual particulars to Gasteel, 260 Upper Tooting Road, S.W. 17.

PHARMACIST, 34, who has for several years managed first-class City business for firm of high repute, desires change; seaside preferred; partnership entertained. "Forward" (56/2), Office of this Paper.

QUALIFIED, experienced lady Dispenser-Bookkeeper requires post (resident preferred) in good-class Doctor's house; good working and personal references. Apply 55/23, Office of this Paper.

QUALIFIED lady Pharmacist (aged 22½); six years' experience Counter, Dispensing; Locum, season, permanent; North England preferred. Apply 55/20, Office of this Paper.

QUALIFIED, but out of touch; would accept small salary and do anything; 32; single; abstainer. H., 128 Dorset Road, S.W.

QUALIFIED (1911), 37, abstainer, London suburbs and country experience, reliable, disengaged, desires permanent berth; married. "Spes," 98 Greyhound Lane, Streatham, S.W.

QUALIFIED (37), experienced in all branches, trustworthy, abstainer, as Branch Manager or view to succession; excellent references. Apply 58/7, Office of this Paper.

REGISTERED Druggist, first-class City and country experience, desires to hear of suitable vacancy; highest references; presently engaged. Apply 55/12, Office of this Paper.

SMART, experienced Pharmacist Manager requires permanency in town or country; up-to-date in modern business methods; disengaged; married. Usual particulars to "Minor," 26 Fox Hill, S.E. 19.

THOROUGHLY experienced, good Manager, Assistant; unregistered; disengaged. "Chemicus," 79 Cecil Street, Manchester.

UNQUALIFIED Managing Assistant prepared for Locum work on the South Coast; Dispensing, Photo., and General Retail; up-to-date Window-dressing; free about middle of April; 8 years' good references. "Celeritas" (51/29), Office of this Paper.

UNQUALIFIED (33); 17 years' experience as Manager and Assistant, General Retail, Dispensing, and Photo; some Wholesale; locum or permanency; excellent references. Apply "Ray" (57/3), Office of this Paper.

WOULD any Dispenser (lady) in the Channel Isles care to exchange posts with one in the Eastern Counties? Write particulars to Miss Walker, Olland House, Bungay, Suffolk.

YOUNG lady, 17, requires situation in Retail Chemist; Counter, Packing, etc. "Aspirin," 272 Merton Road, Wandsworth, S.W. 18.

YOUNG Lady, unqualified, requires position as Assistant; five years' good experience; quick, accurate Dispenser; smart Counter work, Window-dressing, and Photography; excellent references. 57/15, Office of this Paper.

£5 10s.—Qualified Branch Manager or Assistant; sound references; nine years' thorough experience in first-class business. "Genuine" (57/17), Office of this Paper.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

2s. for 18 words or less; 6d. for every additional 10 words or less, *propala*.

A REPRESENTATIVE, apprenticed Retail; six years Traveling; young, energetic, tall, smart, and gentlemanly appearance. 21/21L, Office of this Paper.

As Traveller.—Advertiser desires change; enterprising house essential; many years present ground; extensive connection (Chemists and Stores). "Energetic" (58/1), Office of this Paper.

BELFAST AND NORTHERN IRELAND.—Experienced Representative with safe connection Wholesale and Retail Chemists, etc., desires Agency; highest references. Apply 55/16, Office of this Paper.

CHEMIST, QUALIFIED, M.P.S., F.C.S., 5 years' experience Analytical and Manufacturing Laboratories, standardisation of Drugs, Galenicals, B.P. Preps., etc.; young, energetic, and full of initiative in introducing new lines; best references. Apply 56/6, Office of this Paper.

ENERGETIC Representative desires post with firm of manufacturers; good knowledge of Drug and Sundries business. P.C.B. 74/7, Office of this Paper.

EX-SERVICE man, age 22, requires position with Wholesale house; 3½ years' experience; excellent references; Laboratory preferred. W. W., 341a Sherrard Road, Manor Park.

EXPERIENCED Office, Warehouse, Manufacturing, Stock, and Storekeeper; practical Checker; Chemicals, Drugs, Orders. G., 122 Scott-Ellis Gardens, N.W. 8.

GELATINE-CAPSULE Maker (machine-made); used to Wilkinson's press; well up. Apply Herbert, 25 Duncan Buildings, Holborn, E.C. 1.

MEDICINAL Capsule Maker seeks situation; used to Wilkinson Press; well up in Gelatine Mixing; understands the Capsule trade right out; excellent references. A. J., 68 Salop Road, Walthamstow, E. 17.

PERFUMERY AND TOILET SPECIALITIES.—Advertiser requires position; accustomed to manufacture by the most economical methods all Perfumes, Soaps, and Toilet Preparations; up-to-date in the artistic production of Tooth Pastes, Vanishing Creams, compact Powders, liquid Shampoos, Bath Cubes, solid Cologne, exquisitely Perfumed Soaps, latest handkerchief odours for home and export trade; sales organisation and advertising experience. "De Beauvais" (54/3), Office of this Paper.

POST desired in London Drug house; Wets, Dries, or Laboratory; good references; interview desired. Write "Statim," 41 Oxford Road, Ealing, W. 5.

REPRESENTATIVE, 31, plenty of energy and business ability, first-class appearance, highest references, open to represent good house; Proprietary, Drugs, or Perfumery; excellent personal connection covering Lancs, Yorkshire, and Midlands. Apply 55/150, Office of this Paper.

SALES Manager, with 14 years' experience of the Drug trade, including Soap, Perfumery, Sundries, Drugs, etc., available for service with an established concern seeking opportunities for extension. Apply 55/15, Office of this Paper.

TRAVELLER, well known in Ireland among Doctors and Chemists, now disengaged, desires representation in any branch of the trade; highest testimonials and references. Write Palmer, 70 Tottenham Court Road.

WANTED, position of trust; thorough knowledge Shipping, Export and Import, Controlled Sales and Purchases, Druggists' Sundries, Office management, Correspondence, etc.; excellent testimonials; age 30; married. P.C.B. 73/39, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

SOUTH AFRICA.—Pharmaceutical Chemist, with over 30 years' experience in Dispensing Businesses, part on own account, wishes position as Representative to call on Medical Men; South Africa or Colonies preferred; single; good references. "ColonRs," (56/29), Office of this Paper.

MISCELLANEOUS.

10s. for 60 words; 1s. for every additional 10 words or less.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

SHOP FITTINGS.—Drug Fitting, glass-fronted Counter, Wall Cases, and Dispensary Screens for immediate delivery; lowest prices consistent with high-class work. H. Mills & Sons, Shop-fitters, 163/165 Old Street, E.C. 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C. 1.

BOTTLES.—126 gross 11-oz. round long-neck Vinegar or Sauce Bottles, 16s. gross; 45 gross 10-oz. Cheltenham, 16s. gross; all well finished; British manufacture; packed and delivered f.o.r. Newcastle. Heckels, 26 Northumberland Street, Newcastle.

COMPLETE set of Shop Fittings, comprising 14' 0" Drug Fitting, 10' 0" glass-fronted Counter, 6' 0" bent plate-glass Counter Case, 6' 0" handsome Dispensing Screen, Counter, and Sponge Case, 6' 0" Wall Case, Perfumery Case, and Desk and nest of Counter Drawers. Can be seen at Philip Josephs & Sons, Ltd., 55 Old Street, London, E.C. 1.

FOR Sale, at Sacrifice. 300 gross Flexible Steel Nail Files (3 to 8 in.); 35 gross Menthol Inhalers; 25 dozen Manicure Sets (box); 50 dozen Shaving Brushes; 3 gross Tweezers. P.C.B. 74/2. Office of this Paper.

JOB LINE OF BOTTLES TO CLEAR CHEAP. 150 gross 1-oz. Limes; 150 gross 1-oz. Limes; 100 gross 2-oz. Limes; 100 gross 2-oz. vials; 100 gross 6-oz. medicals; 100 gross 8-oz. medicals. Apply 55, 55R, Office of this Paper.

TURNED Wooden Boxes, surplus stock; 2 cases each 3' high x 1 1/2' diameter and 1' high x 1 1/2' diameter; 1 case, 3' high x 1 1/2' diameter and 1' high x 1 1/2' diameter; inquiries for case lots solicited; immediate delivery. E. B. Estes & Sons, 16-17 Devonshire Square, Bishopsgate, E.C. 2.

WHAT Offers?—100,000 Commercial Envelopes; 5 gross assorted Household Thermometers; 1 gross Bath; 20 gross tested Clinicals; 10 cases each 7-oz., 8-oz., 9-oz., and 12-oz. Toilet Rolls; 100,000 Chip Boxes, nested; 6 doz. x 1s. 5d. packets Stationery; 6 doz. each 1/2, 1, and 1-1/2 lb. fancy boxes high-class Chocolates; whole or part; samples on request; immediate delivery from B.M.C., Ltd., Croydon.

330 GROSS 1-oz. size Screw-top, Pale-green Glass Jars, suitable for Creams, Pomades, etc., for Sale; Manufacturer will be pleased to consider offers for any quantity or whole and submit samples. 7/22D, Office of this Paper.

EXCHANGE COLUMN.

Twopence per word; Minimum 2s.

FOR DISPOSAL

NEST OF DRAWERS. 6 ft. x 4 ft. high x 10 inch; decent condition. "Yorkshire" (55/9), Office of this Paper.

CASH Register, large; keys for 5 assistants; what offers? Also good Microscope; can be seen any time. Pryor's, 60 High Street, Beckenham.

DRUGS AND CHEMICALS.

ONE ounce guaranteed Virgin Otto of Roses, 85s. Apply 58/6, Office of this Paper.

40 DOZ. Horse Balls Physic, 4 to 8 drs., Worm and Cough, Wand's gelatine-coated. 2s. per doz.; 6 doz. carriage paid; or exchange Patents or saleable goods. Hickman, Bridgwater.

OPTICAL AND PHOTOGRAPHIC.

OPTICAL Trial Case; unmounted Lenses; Thorington and other Books. Balchin, 53 Oakwood Road, Golders Green, N.W. 11.

WANTED.

STEAM-JACKETED Pan; capacity 40 to 80 gallons. Vincent, Chemist, Addiscombe, Croydon.

PAIR 2-gallon Swan-neck Carboys; perfect condition. Carriage-paid price to Hudson, Chemist, Skegness.

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